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ACIDIC PRECIPITATION
IN ONTARIO STUDY

DAILY PRECIPITATION
CHEMISTRY LISTINGS
1987

JULY 1990



Ontario

Environment
Environnement

Jim Bradley, Minister/ministre

ACIDIC PRECIPITATION IN ONTARIO STUDY
DAILY PRECIPITATION CHEMISTRY LISTINGS

1987

ARB-004-89

Report Prepared by:
Atmospheric Research and Special Projects Section
Air Resources Branch
Ontario Ministry of the Environment

JULY 1990



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TABLE OF CONTENTS

	<u>Page</u>
PART I INTRODUCTION	II
PART II STATION DESCRIPTION AND LOCATION MAP	V
PART III CENTRAL REGION DAILY PRECIPITATION CHEMISTRY LISTINGS	

<u>Station Name</u>	<u>Map Ref. No.</u>	<u>Page</u>
Balsam Lake	06	1
Dorest	08	13
Nithgrove	07	28
Raven Lake	05	40

PART IV NORTHWESTERN REGION DAILY PRECIPITATION CHEMISTRY LISTINGS	
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<u>Station Name</u>	<u>Map Ref. No.</u>	<u>Page</u>
Dawson	17	52
Fernberg	16	58
Quetico Centre	14	70

PART V SOUTHEASTERN REGION DAILY PRECIPITATION CHEMISTRY LISTINGS	
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<u>Station Name</u>	<u>Map Ref. No.</u>	<u>Page</u>
Charleston Lake	11	76
Railton	10	85
Wilmer	9A	94

PART VI SOUTHWESTERN REGION DAILY PRECIPITATION
CHEMISTRY LISTINGS

<u>Station Name</u>	<u>Map Ref. No.</u>	<u>Page</u>
Longwoods	02	106
Melbourne	01	115
North Easthope	03	127
Wellesley	04	139

PART VII QUEBEC INTERCOMPARISON SITE

<u>Station Name</u>	<u>Map Ref. No.</u>	<u>Page</u>
Sutton	n/a	151

PART I

INTRODUCTION

INTRODUCTION

The data listed herein are a summary of the 1987 results acquired from the APIOS daily precipitation sampling network. All data presented in this report have been screened for validity. Remarks and qualifications have been appended to records, and/or results where necessary. The screening procedure involved checking each record for chemical analysis integrity (e.g. ionic balance, observed vs. theoretical conductance). Gross limit checks were applied to the results. Upper limits were determined as $M + 2S$ where median (M) and scale (S) represent robust estimates of the mean and standard deviation respectively. Scale of the distribution was determined from interquartile distance, i.e. $S = 0.74$ (3rd quartile - 1st quartile) distribution is significantly bounded by reported detection limits, S may be estimated as follows, $S = 1.48$ (3rd quartile - 2nd quartile). Lower gross limits were specified by the above method except for those parameters with minimum values at or near the detection limit (Mg, K and Na). For these parameters a lower gross limit of zero was utilized. The data were also screened for outliers statistically by applying the Dixon Ratio test to the highest and lowest values observed in each region on a daily basis. Outliers were determined at the 95% level of confidence. Records and/or results deemed unreliable were flagged not delayed. Detailed description of the validation procedures as applied to this data set is available from the Ministry upon request.

Station Identification

The station identification is defined by four descriptive fields (e.g. Dorset/Daily/Aerochem #8). The first field refers to the sampling location. The second and third fields describe the sampling interval and the instrumentation used respectively. The last numeric field refers to the index code utilization on the location map.

Daily Precipitation Chemistry Listings

Sample type, as coded in the data listings, represents the best guess of the type of event which was sampled. All chemical analysis were done on unfiltered sampler. Lab pH entries represent pH measurements at the main MOE Laboratory in Toronto while field pH entries represent measurements at regional laboratories. Remarks codes (e.g., U,A) appended to individual results are defined in a later section. The tabulated results for "Free H⁺" were calculated from the reported Lab pH. Total hydrogen results, reported as "Total H⁺", represent either a gram analysis titration or a titration of the sample with NaOH to an end point pH of 8.3.

Calculation of Equivalent Precipitation Depth (mm)

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collection (ml)} \times 15.6}{1000}$$

Calculation of Observed Sampling Efficiency

$$\% \text{ Efficiency} = \frac{\text{Equivalent Precipitation Depth (mm)} \times 100\%}{\text{Gauge Depth (mm)}}$$

If the sample collection efficiency is less than 50% or greater than 120% and if any of the field comment codes which affect sample collection efficiency (i.e. "F", "G", "H", "I", "J", "K", "L", "P", and "M") is appended to the sample record, then the sample collection efficiency is flagged as unreliable.

Field Comment Code Index

A - Insect in sample	J - Event(s) missed
B - Leaves in sample	J - Wet side open when not precipitating
C - Particulates in sample	K - No precipitation collected
D - Fibres in sample	L - Part of event missed
E - Sample not submitted	M - Dry side open when precipitating
G - Sample spilled or leaked	P - Gauge depth incorrect
H - Volume incorrect	Q - Other

Office Comment Code Index

C - Poor calculated vs. observed conductance comparison	Y - Collection sample remained in excess of 24 hours with event(s) only occurring in the first 24 hours
J - pH Large	Y2 - Sampling period equal to two days
H - Poor calculated vs. observed pH comparison	Y3 - Sampling period equal to three days
M - Poor ionic balance	Y4 - Sampling period equal to four days
N - Abnormal sample collection efficiency	Z - Non-standard collection period with one or more events collection after 24 hours
T - Free H ⁺ exceeds total H ⁺	

Results Remark Code Index

- > - actual results greater than value reported
- < - actual result less than value reported
- <T - actual result less than criterion of detection
- <W - no response, minimum possible results reported
- A - approximate value
- U - unreliable result
- LG - exceedance of Lower Gross Limit Checks
- UG - exceedance of Upper Gross Limit Checks
- D - outlier of Dioxin Ratio Test
- B - exceedance of Gross Limit Checks and Outlier of Dioxin Ratio Tests

PART II

STATION DESCRIPTION AND LOCATION MAP

ONTARIO MINISTRY OF THE ENVIRONMENT
APFOS-ACIDIC PRECIPITATION IN ONTARIO STUDY
DAILY PRECIPITATION SITES

STATION ID	MOE REGION	STATION NAME	ELEV (M)	LATITUDE (NORTH)	LONGITUDE (WEST)	UTM GRID CO-ORDINATES (NORTHING) (EASTING)
000002-02-01-1011	SOUTHWESTERN	LONGWOODS	239	42°53' 03"	81°28' 50"	4747849 460756
000002-02-01-1021	SOUTHWESTERN	MELBOURNE	213	42°47' 12"	81°33' 27"	4737061 454401
000002-02-01-1031	SOUTHWESTERN	NORTH EASTHOPE	375	43°24' 22"	80°53' 45"	4805705 508434
000002-02-01-2011	SOUTHWESTERN	WELLESLEY	344	43°28' 05"	80°45' 33"	4812606 519481
000002-02-01-2031	SOUTHWESTERN	EGBERT	253	44°13' 57"	79°46' 53"	4898202 597322
000002-02-01-3011	CENTRAL	DORSET	320	45°13' 25"	78°55' 51"	5009657 662451
000002-02-01-3021	CENTRAL	NITHGROVE	335	45°12' 03"	78°04' 12"	5009221 730127
000002-02-01-3031	CENTRAL	BALSAM LAKE	259	44°37' 45"	78°51' 22"	4943776 670063
000002-02-01-3041	CENTRAL	RAVEN LAKE	274	44°36' 40"	78°54' 43"	4941655 665686
000002-02-01-4011	SOUTHEASTERN	CHARLESTON LAKE	92	44°29' 50"	76°02' 40"	4927414 416963
000002-02-01-4021	SOUTHEASTERN	RAILTON	152	44°22' 34"	74°34' 45"	4913518 533527
000002-02-01-4031	SOUTHEASTERN	GRAHAM LAKE	130	44°34' 50"	76°51' 45"	4940930 749090
000002-02-01-4081	SOUTHEASTERN	GOLDEN LAKE	160	45°36' 48"	77°12' 03"	5053226 328397
000002-02-01-4101	SOUTHEASTERN	WILMER	125	44°26' 23"	76°31' 50"	4921637 378195
000002-02-01-5061	NORTHEASTERN	GOMGANDA ✓	343	47°39' 04"	80°46' 32"	5277329 516647
000002-02-01-5171	NORTHEASTERN	HIGH FALLS	215	46°22' 55"	81°32' 43"	5136412 458068
000002-02-01-6051	NORTHWESTERN	FERNBURG	506	47°56' 51"	91°29' 26"	5311349 612714
000002-02-01-6071	NORTHWESTERN	QUETICO CENTRE	420	48°24' 44"	91°12' 08"	5363461 633036
000002-02-01-6131	NORTHWESTERN	DAWSON	381	48°33' 38"	89°36' 60"	5361779 304475
000002-02-01-7011	QUEBEC	SUTTON	243	45°04' 35"	72°40' 35"	4993846 682898
000002-02-01-7021	PENNSYLVANIA	PENN. STATE ✓	120	40°47' 18"	77°56' 47"	4519229 251390

LEGEND

1. Melbourne
2. Longwoods
3. N. Easthope
4. Wellesley
5. Raven Lake
6. Balsam Lake
7. Nithgrove
8. Dorset
9. Whitman Creek
- 9A. Wilmer
10. Railton
11. Charleston Lake
12. Graham Lake
13. Forbes Township
14. Quetico Centre
15. Lac La Croix
16. Fernberg
17. Dawson
18. Gowganda
19. High Falls
20. Egbert
21. Penn State (Pa)

0 200
Km



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Ontario

PART III
CENTRAL REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM 806

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
				01-BALIN 02-SNOW 03-COMP/04-OTHER		01-STD. 02-NIPHER		02-APTOS 03-SPECIAL	01-HOE 03-AES		
JAN 3-87	JAN 2-87	800 930	2200 200	2	1.2	2	42366	2	1	146	N
JAN 7-87	JAN 6-87	800 755	500 730	3	2.2	2	42369	2	1	129	N
JAN 8-87	JAN 7-87	755 755	600 745	2	0.1	2	42370	2	1	31	N
JAN 9-87	JAN 8-87	755 755	2000 700	2	1.1	2	42371	2	1	114	E
JAN 11-87	JAN 10-87	500 1800		2	8.3	2	42372	2	1	75	N
JAN 15-87	JAN 14-87	800 750	500 730	3	0.1	2	42373	2	1	686	N
JAN 16-87	JAN 15-87	800 950	100 900	1	9.0	2	42374	2	1	96	N
JAN 21-87	JAN 20-87	800 755	1515 2300	2	0.1	2	42375	2	1	46	N
JAN 23-87	JAN 22-87	800 755	1800 700	2	2.4	2	42376	2	1	89	E
JAN 24-87	JAN 23-87	755 930	1600 600	2	5.4	2	42377	2	1	78	N
JAN 25-87	JAN 24-87	930 1000	1530 300	2	6.2	2	42378	2	1	57	C
JAN 29-87	JAN 28-87	800 755	100 400	2	0.1	2	42379	2	1	296	C
JAN 30-87	JAN 29-87	755 755	400 755	2	3.2	2	42380	2	1	59	N
JAN 31-87	JAN 30-87	755 930	755 700	2	9.1	2	42381	2	1	61	N
FEB 2-87	FEB 1-87	800 755	1000 500	2	0.4	2	42382	2	1	273	N
FEB 3-87	FEB 2-87	755 755	200 700	2	3.4	2	42383	2	1	109	N
FEB 5-87	FEB 4-87	800 755	1100 1500	2	1.4	2	42384	2	1	69	N
FEB 7-87	FEB 6-87	800 930	1700 700	2	1.2	2	42385	2	1	171	N
FEB 9-87	FEB 8-87	1030 1030	200 1030	2	14.0	2	42386	2	1	71	N
FEB 10-87	FEB 9-87	755 755	1030 400	2	4.1	2	42387	2	1	24	C
FEB 13-87	FEB 12-87	600 755	1800 2300	2	0.2	2	42388	2	1	256	N
FEB 23-87	FEB 22-87	600 755	1700 700	2	0.4	2	42389	2	1	249	N
MAR 1-87	FEB 28-87	600 755	1030 755	2	1.0	2	42391	2	1	95	N
MAR 2-87	MAR 1-87	1030 755	1030 755	3	2.3	2	42393	2	1	303	N
MAR 3-87	MAR 2-87	755 755	1000 730	2	22.3	2	42394	2	1	77	N
MAR 16-87	MAR 15-87	600 800	1000 730	2	1.4	2	42397	2	1	51	N
MAR 26-87	MAR 25-87	600 800	1000 730	1	5.2	2	42398	2	1	116	N
MAR 30-87	MAR 29-87	600 755	400 755	1	7.2	2	42399	2	1	127	A
MAR 31-87	MAR 30-87	755 850	755 850	3	32.0	2	42400	2	1	69	N
APR 1-87	MAR 31-87	650 755	850 755	2	10.0	2	42401	2	1	74	N
APR 2-87	APR 1-87	755 755	2200 600	2	3.4	2	42402	2	1	30	N
APR 3-87	APR 2-87	755 755	900 600	2	0.3	2	42403	2	1	197	N
APR 15-87	APR 14-87	800 755	2305 600	1	10.0	2	42404	2	1	143	NC
APR 24-87	APR 23-87	800 755	900 1600	1	0.2	2	42405	2	1	530	N
APR 26-87	APR 25-87	800 755	1600 745	1	0.4	2	42406	2	1	140	N
APR 28-87	APR 27-87	800 755	900 500	1	7.1	2	42407	2	1	98	N
APR 29-87	APR 28-87	755 750	900 500	1	4.2	2	42408	2	1	110	J
APR 30-87	APR 29-87	750 755	845 2300	1	4.3	2	42409	2	1	107	J
MAY 11-87	MAY 10-87	600 755	500 745	1	12.1	2	42411	2	1	104	JH
MAY 12-87	MAY 11-87	755 750	200 200	1	3.0	2	42412	2	1	103	JH

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APROS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

#06

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H ₂ TO PHB.3 MG/L	TOTAL H ₂ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 3,87	JAN 2,87	113.0	7.3	4.77	4.86	*****	0.0283	0.30	0.20
JAN 7,87	JAN 6,87	182.0	96.2	3.75	3.73	*****	0.2050	5.65	2.75
JAN 8,87	JAN 7,87	2.0	*****	*****	*****	*****	*****	*****	*****
JAN 9,87	JAN 8,87	81.0	30.0	*****	*****	*****	0.0170	5.80	0.91
JAN 11,87	JAN 10,87	404.0	16.8	4.41	6.71	*****	0.0681	0.50	0.48
JAN 15,87	JAN 14,87	64.0	100.0	*****	3.69	*****	0.2990	6.30	2.89
JAN 18,87	JAN 17,87	555.0	D	4.38	4.54	*****	0.0562	0.65	0.67
JAN 21,87	JAN 20,87	3.0	*****	*****	*****	*****	*****	*****	*****
JAN 23,87	JAN 22,87	138.0	31.0	4.19	4.31	*****	0.0756	0.55	1.03
JAN 24,87	JAN 23,87	272.0	4.8	5.20	5.49	*****	0.0175	0.25	0.10
JAN 25,87	JAN 24,87	278.0	4.7	5.17	5.47	*****	0.0175	0.30	0.12
JAN 26,87	JAN 25,87	19.0	27.8	*****	4.45	*****	0.0659	1.35	0.79
JAN 30,87	JAN 28,87	122.0	23.5	4.16	4.30	*****	0.0797	0.60	0.80
JAN 31,87	JAN 30,87	358.0	39.0	4.09	4.23	*****	0.0991	1.60	1.00
FEB 2,87	FEB 1,87	70.0	30.1	*****	4.24	*****	0.0978	1.50	0.99
FEB 3,87	FEB 2,87	238.0	25.4	4.36	4.53	*****	0.0604	1.60	0.72
FEB 5,87	FEB 4,87	62.0	40.2	*****	4.29	*****	0.0763	3.65	1.80
FEB 7,87	FEB 6,87	132.0	19.1	4.52	4.56	*****	0.0478	1.55	0.80
FEB 8,87	FEB 7,87	642.0	28.9	4.35	4.46	*****	0.7200	2.50	1.20
FEB 9,87	FEB 8,87	64.0	8.3	*****	5.08	*****	0.3790	0.45	0.36
FEB 10,87	FEB 9,87	29.0	22.5	*****	4.51	*****	0.0508	1.25	1.20
FEB 13,87	FEB 12,87	64.0	29.7	*****	4.17	*****	0.0850	0.80	1.16
FEB 23,87	FEB 22,87	61.0	100.0	*****	3.47	*****	0.4000	4.70	2.51
MAR 1,87	FEB 28,87	448.0	21.7	4.30	4.39	*****	0.0642	1.25	0.40
MAR 2,87	MAR 1,87	1102.0	20.6	4.33	4.43	*****	0.0599	1.15	0.39
MAR 3,87	MAR 2,87	46.0	12.9	*****	4.70	*****	0.0383	1.15	0.18
MAR 26,87	MAR 25,87	389.0	30.0	4.09	4.22	*****	0.0947	2.90	0.79
MAR 30,87	MAR 29,87	587.0	64.5	3.89	4.02	*****	0.1540	5.55	1.35
MAR 31,87	MAR 30,87	1431.0	14.5	3.43	4.58	*****	0.0515	1.20	0.16
APR 1,87	MAR 31,87	480.0	8.3	4.68	4.82	*****	0.0351	0.55	0.12
APR 2,87	APR 1,87	67.0	27.0	*****	4.31	*****	0.0794	0.55	0.82
APR 3,87	APR 2,87	36.0	44.5	*****	4.15	*****	0.1170	2.45	1.06
APR 5,87	APR 4,87	920.0	7.4	4.75	4.94	*****	0.1170	2.45	1.06
APR 15,87	APR 14,87	57.0	57.0	*****	3.93	*****	0.0289	0.45	0.08
APR 26,87	APR 25,87	68.0	100.0	*****	4.44	*****	0.1610	7.45	1.18
APR 28,87	APR 27,87	36.0	18.0	*****	5.63	*****	0.1050	23.00	4.95
APR 29,87	APR 28,87	450.0	8.0	4.60	6.77	*****	0.0199	2.55	1.09
APR 30,87	APR 29,87	297.0	11.0	5.30	4.78	*****	0.0372	1.10	0.05
MAY 11,87	MAY 10,87	608.0	48.5	4.09	4.59	*****	0.0424	1.60	0.07
MAY 12,87	MAY 11,87	331.0	39.5	4.08	4.33	*****	0.0863	6.90	1.34
							0.0759	5.60	0.63

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEN

806

PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 3,87	JAN 2,87	<T	0.08	<T	0.005	<T	0.005	0.0138
JAN 7,87	JAN 6,87	0.36	0.11	<T	0.005	0.120	0.005	0.1862
JAN 8,87	JAN 7,87	*****	0.44	0.055	0.035	0.155	*****	*****
JAN 9,87	JAN 8,87	*****	*****	*****	*****	*****	*****	*****
JAN 11,87	JAN 10,87	2.16	0.29	0.095	0.060	0.150	0.150	0.0002
JAN 15,87	JAN 14,87	0.16	0.08	<T	0.005	<T	0.015	0.0251
JAN 18,87	JAN 17,87	IIS	0.73	IIS	IIS	IIS	0.060	0.2042
JAN 21,87	JAN 20,87	<T	0.06	<T	0.005	0.030	0.295	0.0288
JAN 23,87	JAN 22,87	*****	0.14	*****	*****	*****	*****	*****
JAN 24,87	JAN 23,87	D	0.32	<T	0.025	D	0.065	0.0490
JAN 25,87	JAN 24,87	0.12	0.18	<T	0.005	0.090	0.010	0.0032
JAN 26,87	JAN 25,87	0.16	0.15	<T	0.020	0.075	0.015	0.0034
JAN 29,87	JAN 28,87	0.40	0.40	<T	0.050	0.235	0.020	0.0355
JAN 30,87	JAN 29,87	D	0.16	<T	0.005	D	0.020	0.0501
JAN 31,87	JAN 30,87	0.10	0.22	<T	0.015	0.085	0.260	0.0589
FEB 2,87	FEB 1,87	0.26	0.23	<T	0.015	0.095	0.260	0.0575
FEB 3,87	FEB 2,87	0.18	0.15	<T	0.015	0.085	0.545	0.0295
FEB 5,87	FEB 4,87	0.78	0.52	D	0.090	0.230	1.600	0.0513
FEB 7,87	FEB 6,87	0.26	0.24	D	0.035	0.075	0.700	0.0275
FEB 8,87	FEB 7,87	0.40	0.30	<T	0.015	0.080	1.100	0.0367
FEB 9,87	FEB 8,87	0.40	0.22	<T	0.025	0.090	0.035	0.0083
FEB 10,87	FEB 9,87	0.80	0.24	<T	0.025	0.155	0.425	0.0309
FEB 13,87	FEB 12,87	0.44	0.33	<T	0.025	0.155	0.165	0.0676
FEB 23,87	FEB 22,87	0.70	1.29	<T	0.005	0.165	0.225	0.3388
MAR 1,87	FEB 28,87	<T	0.02	<T	0.005	<T	0.085	0.0407
MAR 2,87	MAR 1,87	<T	0.02	<T	0.005	<T	0.015	0.0372
MAR 3,87	MAR 2,87	0.22	0.09	<T	0.015	0.060	0.010	0.0200
MAR 26,87	MAR 25,87	0.62	<M	D	0.030	0.065	0.505	0.0603
MAR 30,87	MAR 29,87	D	0.62	D	0.055	0.045	1.000	0.0955
MAR 31,87	MAR 30,87	<T	0.02	<M	0.005	0.005	0.035	0.0263
APR 1,87	MAR 31,87	<T	0.02	<M	0.005	0.005	0.020	0.0151
APR 2,87	APR 1,87	<T	0.14	<T	0.015	0.010	0.035	0.0490
APR 3,87	APR 2,87	D	0.64	D	0.060	0.120	0.240	0.0708
APR 5,87	APR 4,87	<T	0.40	<M	0.005	<T	0.030	0.0715
APR 15,87	APR 14,87	1.40	0.27	<T	0.005	0.025	0.655	0.1175
APR 24,87	APR 23,87	IIS	1.30	IIS	0.060	0.075	3.400	0.0363
APR 28,87	APR 27,87	2.04	0.50	0.645	0.070	0.055	0.490	0.0002
APR 29,87	APR 28,87	0.13	<M	0.01	<T	0.005	0.025	0.0166
APR 30,87	APR 29,87	0.22	<M	0.025	0.030	0.020	0.060	0.0209
MAY 11,87	MAY 10,87	1.30	0.27	0.220	0.000	0.045	1.630	0.0257
MAY 12,87	MAY 11,87	0.68	0.20	0.105	0.040	0.095	0.980	0.0468

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROSOL #06

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-STD.		02-APIOS			
				02-SNOW		02-NIPHER		03-SPECIAL			
				03-COMP/04-OTHER							
MAY 15.87	MAY 14.87	700 750	1600 430	1	20.1	1	42413	2	1	34	N
MAY 22.87	MAY 21.87	800 755	400 700	1	3.2	1	42414	2	1	101	T
MAY 24.87	MAY 23.87	800 945	830 1600	1	3.2	1	42415	2	1	100	
MAY 27.87	MAY 26.87	800 755	1300 6200	1	2.4	1	42416	2	1	112	C
JUN 1.87	MAY 31.87	755 755	1100 1400	1	1.1	1	42417	2	1	93	
JUN 2.87	JUN 1.87	755 755	1800 2300	1	3.1	1	42418	2	1	95	
JUN 6.87	JUN 5.87	800 930	930 1400	1	3.1	1	42419	2	1	70	
JUN 7.87	JUN 6.87	930 1030	2200 700	1	5.1	1	42420	2	1	72	
JUN 8.87	JUN 7.87	1030 755	1530 730	1	12.0	1	42421	2	1	94	J
JUN 9.87	JUN 8.87	755 755	900 400	1	1.1	1	42422	2	1	127	NH
JUN 10.87	JUN 9.87	755 755	900 1500	1	0.2	1	42423	2	1	93	
JUN 12.87	JUN 11.87	800 930	1530 930	1	11.0	1	42424	2	1	102	
JUN 13.87	JUN 12.87	930 800	1930 2000	1	0.4	1	42425	2	1	54	
JUN 14.87	JUN 13.87	800 800	200 300	1	5.0	1	42426	2	1	95	HM
JUN 19.87	JUN 18.87	800 755	400 300	1	0.2	1	42427	2	1	155	N
JUN 23.87	JUN 22.87	800 755	805 2100	1	3.2	1	42428	2	1	105	
JUN 25.87	JUN 24.87	800 755	200 225	1	3.1	1	42429	2	1	112	
JUN 27.87	JUN 26.87	755 930	810 1300	1	2.3	1	42430	2	1	124	N
JUN 28.87	JUN 27.87	930 1100	1600 1800	1	3.2	1	42431	2	1	110	
JUN 30.87	JUN 28.87	1100 755	545 745	1	7.45	1	42432	2	1	90	
JUN 31.87	JUN 29.87	755 755	515 1400	1	26.4	1	42433	2	1	26	N
JUL 4.87	JUL 2.87	755 755	1500 400	1	0.4	1	42434	2	1	167	N
JUL 7.87	JUL 6.87	750 750	1400 2300	1	14.2	1	42435	2	1	105	
JUL 8.87	JUL 7.87	755 755	1800 2300	1	12.2	1	42436	2	1	110	
JUL 14.87	JUL 13.87	800 755	1145 755	1	5.0	1	42437	2	1	101	
JUL 15.87	JUL 14.87	755 755	755 1400	1	31.0	1	42438	2	1	112	
JUL 20.87	JUL 19.87	800 755	2230 730	1	4.1	1	42439	2	1	86	CN
JUL 25.87	JUL 24.87	930 930	1515 1600	1	12.4	1	42440	2	1	87	
JUL 30.87	JUL 29.87	755 755	2230 2350	1	3.4	1	42441	2	1	95	
AUG 3.87	AUG 2.87	850 850	900 2200	1	2.3	1	42442	2	1	113	H
AUG 8.87	AUG 7.87	850 850	1700 2200	1	4.2	1	42443	2	1	129	N
AUG 10.87	AUG 9.87	755 755	865 2000	1	5.0	1	42444	2	1	110	
AUG 16.87	AUG 15.87	800 945	865 2000	1	7.1	1	42445	2	1	99	
AUG 18.87	AUG 17.87	800 755	755 2000	1	7.1	1	42446	2	1	99	HCM
AUG 22.87	AUG 21.87	800 750	200 700	1	6.1	1	42447	2	1	105	
AUG 27.87	AUG 26.87	800 755	500 600	1	0.1	1	42448	2	1	304	U
AUG 29.87	AUG 28.87	800 930	500 600	1	1.3	1	42449	2	1	111	HM
AUG 31.87	AUG 30.87	800 755	200 700	1	7.4	1	42450	2	1	105	
SEP 1.87	AUG 31.87	755 755	200 600	1	2.3	1	42451	2	1	107	C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS REPORT
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

#06

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 15-87	MAY 14-87	443.0	47.0	4.21	4.12	*****	0.0971	6.30	0.96
MAY 22-87	MAY 21-87	209.0	82.0	3.81	3.69	*****	0.2030	8.90	1.20
MAY 29-87	MAY 28-87	206.0	52.0	4.09	4.07	*****	0.1100	5.30	1.50
JUN 5-87	MAY 26-87	173.0	> 100.0	LG	LG	*****	0.4420	18.40	2.20
JUN 12-87	MAY 31-87	66.0	83.9	*****	3.36	*****	0.1630	14.15	1.86
JUN 19-87	JUN 1-87	190.0	32.3	4.09	4.20	*****	0.0826	3.45	0.91
JUN 26-87	JUN 5-87	141.0	26.2	4.38	4.56	*****	0.0524	3.40	0.71
JUN 3-87	JUN 8-87	236.0	26.2	4.38	4.55	*****	0.0525	3.40	0.71
JUN 10-87	JUN 7-87	725.0	12.3	4.78	6.34	*****	0.0208	1.60	0.42
JUN 17-87	JUN 6-87	90.0	23.0	*****	4.40	*****	0.0575	3.00	0.26
JUN 24-87	JUN 9-87	12.0	8.0	*****	4.95	*****	0.0291	0.80	0.60
JUN 31-87	JUN 11-87	720.0	54.5	3.87	3.66	*****	0.1400	6.60	0.78
JUN 7-87	JUN 12-87	14.0	13.4	*****	5.06	*****	0.0310	1.35	0.46
JUN 14-87	JUN 13-87	306.0	14.9	4.34	4.57	*****	0.0459	1.35	0.24
JUN 21-87	JUN 18-87	20.0	100.0	*****	3.81	*****	0.1960	14.00	<*>
JUN 28-87	JUN 22-87	216.0	31.6	4.09	4.18	*****	0.0829	2.75	0.65
JUN 3-87	JUN 24-87	223.0	25.1	4.24	4.24	*****	0.0629	2.30	0.60
JUN 10-87	JUN 26-87	183.0	46.5	3.99	4.06	*****	0.1180	6.35	0.50
JUN 17-87	JUN 27-87	227.0	25.1	3.67	3.68	*****	0.2510	9.75	1.90
JUN 24-87	JUN 28-87	356.0	25.1	4.26	4.43	*****	0.0612	2.25	0.60
JUN 31-87	JUN 29-87	410.0	44.9	4.04	4.11	*****	0.1060	5.45	0.80
JUL 7-87	JUL 2-87	43.0	27.1	*****	4.30	*****	0.0747	1.80	0.60
JUL 14-87	JUL 3-87	961.0	19.9	4.30	4.56	*****	0.0493	2.30	0.25
JUL 21-87	JUL 6-87	866.0	98.6	3.64	4.35	*****	0.2610	10.75	1.15
JUL 28-87	JUL 7-87	325.0	13.8	4.45	4.43	*****	0.0420	0.50	0.25
JUL 5-87	JUL 13-87	2227.0	11.8	4.64	4.97	*****	0.0334	1.40	0.25
JUL 12-87	JUL 14-87	233.0	4.5	4.79	5.31	*****	0.0231	0.30	0.05
JUL 19-87	JUL 19-87	696.0	16.3	4.40	4.59	*****	0.0404	1.95	0.35
JUL 26-87	JUL 24-87	122.0	45.1	D	4.46	*****	0.0722	9.10	0.95
JUL 3-87	JUL 29-87	168.0	28.2	4.93	4.36	*****	0.0271	4.35	1.35
JUL 10-87	AUG 2-87	356.0	53.6	3.95	3.68	*****	0.0638	2.85	0.75
JUL 17-87	AUG 7-87	355.0	25.4	4.29	4.33	*****	0.0645	2.85	0.50
JUL 24-87	AUG 15-87	451.0	D	4.31	4.32	*****	0.0645	2.85	0.50
AUG 7-87	AUG 2-87	369.0	16.0	*****	4.69	*****	0.0449	2.35	0.33
AUG 14-87	AUG 17-87	277.0	23.0	4.25	4.37	*****	0.0711	2.25	0.43
AUG 21-87	AUG 21-87	414.0	11.0	*****	5.55	*****	0.0253	2.00	0.34
AUG 28-87	AUG 26-87	95.0	14.0	*****	4.75	*****	0.0418	2.15	0.59
AUG 3-87	AUG 28-87	500.0	34.5	4.21	4.19	*****	0.1000	3.90	0.50
SEP 1-87	AUG 31-87	156.0	5.0	5.21	5.51	*****	0.0206	0.45	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM				#06	PAGE : 6			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 15-87	MAY 14-87	1.08	0.23	0.185	0.045	0.030	0.970	0.0759
MAY 22-87	MAY 21-87	D	0.24	D	0.045	0.120	0.765	0.2042
MAY 24-87	MAY 23-87	D	0.20	D	0.070	0.135	1.330	0.0851
MAY 27-87	MAY 26-87	D	0.47	D	0.065	0.130	1.270	0.4169
JUN 1-87	MAY 31-87	B	0.40	D	0.390	B	0.450	0.1230
JUN 2-87	JUN 1-87	0.64	0.19	0.070	0.075	0.050	0.610	0.0631
JUN 6-87	JUN 5-87	D	0.84	0.070	0.075	0.075	0.675	0.0275
JUN 7-87	JUN 6-87	0.88	0.16	0.085	0.075	0.075	0.675	0.0282
JUN 8-87	JUN 7-87	0.36	0.09	0.085	0.075	0.070	0.740	D
JUN 9-87	JUN 8-87	0.74	0.17	0.060	0.050	0.015	0.195	UG
JUN 10-87	JUN 9-87	0.16	0.09	<T	0.070	UG	0.005	0.0398
JUN 12-87	JUN 11-87	0.82	0.23	0.105	0.010	!IR	0.005	0.0112
JUN 13-87	JUN 12-87	0.48	0.16	0.105	0.050	0.055	0.485	0.1360
JUN 14-87	JUN 13-87	0.20	0.06	0.080	0.070	0.135	0.245	0.0087
JUN 19-87	JUN 18-87	B	D	0.040	<T	<T	0.220	0.0269
JUN 20-87	JUN 19-87	6.20	0.50	0.505	0.180	0.130	1.450	0.1549
JUN 23-87	JUN 22-87	0.44	0.15	0.030	<T	<T	0.240	0.0661
JUN 25-87	JUN 24-87	0.32	0.05	0.065	0.030	<T	0.455	0.0360
JUN 26-87	JUN 26-87	0.24	<M	0.015	0.025	<T	0.900	0.0871
JUN 28-87	JUN 27-87	D	0.35	D	0.125	0.030	0.630	D
JUN 29-87	JUN 28-87	0.32	<T	0.105	<T	<T	0.470	0.2089
JUN 30-87	JUN 29-87	0.68	0.10	0.145	0.020	0.025	0.535	0.0372
JUL 3-87	JUL 2-87	!IS	<M	!IS	0.030	0.025	0.535	0.0776
JUL 4-87	JUL 3-87	0.24	0.05	0.035	<T	0.010	0.160	0.0501
JUL 7-87	JUL 6-87	0.44	0.20	0.040	0.025	0.030	0.650	0.0275
JUL 8-87	JUL 7-87	<T	0.04	<M	0.040	<T	0.110	0.2239
JUL 14-87	JUL 13-87	0.22	0.10	0.030	<T	0.015	0.230	0.0135
JUL 15-87	JUL 14-87	<T	<T	0.005	<M	<M	0.155	0.0059
JUL 20-87	JUL 19-87	0.34	0.10	0.040	0.010	<T	0.900	0.0437
JUL 25-87	JUL 24-87	D	0.25	D	0.165	0.085	0.210	0.0069
JUL 30-87	JUL 29-87	2.90	0.30	0.520	0.075	0.035	0.640	0.1318
AUG 3-87	AUG 2-87	0.40	0.15	0.040	0.040	<T	0.320	0.0468
AUG 8-87	AUG 7-87	0.46	D	0.045	<T	<T	0.320	0.0479
AUG 10-87	AUG 9-87	D	0.50	D	0.025	<T	2.150	0.6026
AUG 16-87	AUG 15-87	2.08	UG	0.350	0.110	0.295	0.415	0.0204
AUG 18-87	AUG 17-87	0.34	0.07	0.045	0.030	0.040	0.260	0.0427
AUG 22-87	AUG 21-87	0.22	<M	0.025	0.035	0.025	0.020	0.0028
AUG 27-87	AUG 26-87	0.92	0.13	0.150	0.115	0.085	0.060	0.0178
AUG 29-87	AUG 28-87	1.50	0.14	0.110	0.035	0.050	0.475	0.0046
AUG 31-87	AUG 30-87	0.50	0.10	0.045	0.050	<T	0.005	0.0031
SEP 1-87	AUG 31-87	0.22	<T	0.015	<T	<T	0.010	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06										PAGE : 7	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(HR)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
03-COMP/04-OTHER											
SEP 9,87	SEP 8,87	755 755	600 930	1	4.3	1	42455	2	1	103	
SEP 10,87	SEP 9,87	755 755	930 1000	1	0.3	1	42456	2	1	176	N
SEP 12,87	SEP 11,87	755 755	2300 200	1	6.1	1	42457	2	1	85	C
SEP 14,87	SEP 13,87	755 755	1845 1950	1	1.3	1	42458	2	1	117	
SEP 16,87	SEP 15,87	755 755	200 700	1	1.1	1	42459	2	1	62	
SEP 20,87	SEP 19,87	800 930	1000 1900	1	8.3	1	42460	2	1	81	
SEP 21,87	SEP 20,87	930 755	1700 700	1	6.1	1	42463	2	1	112	
SEP 22,87	SEP 21,87	755 755	1000 1400	1	2.3	1	42464	2	1	112	
SEP 26,87	SEP 25,87	755 755	1800 2300	1	4.0	1	42465	2	1	91	Q
SEP 30,87	SEP 29,87	800 930	1500 810	1	13.1	1	42466	2	1	102	A
OCT 1,87	SEP 30,87	930 755	1630 2330	1	4.1	1	42469	2	1	126	N
OCT 2,87	OCT 1,87	755 755	1800 700	1	4.4	1	42470	2	1	129	N
OCT 3,87	OCT 2,87	750 1000	1730 600	1	1.2	1	42471	2	1	115	C
OCT 6,87	OCT 5,87	800 755	500 600	1	0.2	1	42472	2	1	115	E
OCT 8,87	OCT 7,87	750 750	1300 750	1	12.1	1	42473	2	1	97	
OCT 10,87	OCT 9,87	755 755	830 1100	1	2.2	1	42476	2	1	102	
OCT 19,87	OCT 18,87	755 755	800 100	1	5.3	1	42477	2	1	100	
OCT 20,87	OCT 19,87	755 755	500 700	1	0.3	1	42478	2	1	135	N
OCT 21,87	OCT 20,87	750 755	1300 700	1	2.0	1	42479	2	1	106	
OCT 23,87	OCT 22,87	755 755	2000 600	1	12.3	1	42480	2	1	91	
OCT 25,87	OCT 24,87	750 900	1300 700	1	18.0	1	42481	2	1	81	
OCT 26,87	OCT 25,87	755 755	1000 1800	1	8.3	1	42482	2	1	84	
OCT 29,87	OCT 28,87	755 755	600 730	1	0.1	2	42483	2	1	249	N
OCT 30,87	OCT 29,87	750 755	900 745	1	0.3	2	42484	2	1	421	NH
OCT 31,87	OCT 30,87	755 930	600 1700	1	0.2	2	42485	2	1	546	N
NOV 3,87	NOV 2,87	755 755	300 755	1	4.0	2	42486	2	1	136	N
NOV 4,87	NOV 3,87	755 755	755 1700	1	6.0	2	42487	2	1	117	
NOV 5,87	NOV 4,87	750 755	1400 600	1	7.0	2	42488	2	1	87	
NOV 6,87	NOV 5,87	750 755	1300 745	3	1.6	2	42489	2	1	102	M
NOV 6,87	NOV 5,87	755 850	1600 500	2	16.0	2	42490	2	1	40	M
NOV 9,87	NOV 8,87	658 755	1000 2300	1	6.3	2	42491	2	1	232	NH
NOV 12,87	NOV 11,87	755 755	400 700	3	0.4	2	42494	2	1	245	N
NOV 18,87	NOV 17,87	755 755	1400 600	1	5.3	2	42495	2	1	91	
NOV 24,87	NOV 23,87	755 755	1500 700	1	2.2	2	42496	2	1	174	N
NOV 26,87	NOV 25,87	755 755	815 1100	2	36.2	2	42497	2	1	25	NC
NOV 29,87	NOV 28,87	755 1030	400 1000	1	13.2	2	42498	2	1	98	
NOV 30,87	NOV 29,87	1030 600	1300 600	1	2.3	2	42499	2	1	111	
DEC 8,87	DEC 7,87	800 755	500 755	1	0.4	2	76201	2	1	U	P
DEC 9,87	DEC 8,87	755 755	755 755	1	5.3	2	76202	2	1	468	GE
DEC 10,87	DEC 9,87	755 755	755 600	1	2.2	2	76203	2	1	153	NH

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

#06

PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 HG/L	TOTAL H+ GRAN HG/L	SULPHATE HG/L	NITRATE AS N HG/L
SEP 9,87	SEP 8,87	284.0	22.0	4.35	4.36	*****	0.0635	2.00	0.38
SEP 10,87	SEP 9,87	34.0	IIS	*****	4.07	*****	0.1020	IIS	*****
SEP 12,87	SEP 11,87	333.0	D	3.74	3.76	*****	0.2040	8.00	0.76
SEP 14,87	SEP 13,87	98.0	D	3.66	3.69	*****	0.1590	D	1.04
SEP 16,87	SEP 15,87	64.0	70.0	*****	4.17	*****	0.1200	7.15	0.75
SEP 20,87	SEP 19,87	433.0	47.5	4.04	4.09	*****	0.1100	3.85	0.51
SEP 21,87	SEP 20,87	439.0	31.2	4.13	4.17	*****	0.0920	2.50	0.35
SEP 22,87	SEP 21,87	166.0	29.7	4.17	4.25	*****	0.0801	3.10	0.46
SEP 26,87	SEP 25,87	235.0	25.0	4.22	4.34	*****	0.0690	2.55	0.49
SEP 30,87	SEP 29,87	862.0	35.6	4.11	4.24	*****	0.0858	4.90	0.52
OCT 1,87	SEP 30,87	333.0	12.4	4.52	4.61	*****	0.0431	1.00	0.05
OCT 2,87	OCT 1,87	364.0	44.0	6.85	7.03	*****	0.0226	7.65	1.69
OCT 3,87	OCT 2,87	89.0	7.4	*****	6.74	*****	0.0164	1.20	0.12
OCT 6,87	OCT 5,87	2.0	*****	*****	*****	*****	*****	*****	*****
OCT 8,87	OCT 7,87	757.0	10.0	4.58	4.67	*****	0.0366	0.85	0.27
OCT 10,87	OCT 9,87	144.0	48.5	4.23	4.38	*****	0.0793	6.30	1.93
OCT 12,87	OCT 11,87	342.0	32.5	4.18	4.23	*****	0.0791	3.00	0.61
OCT 19,87	OCT 18,87	26.0	52.5	*****	4.06	*****	0.1140	5.10	1.44
OCT 21,87	OCT 20,87	137.0	83.0	3.69	3.75	*****	0.2160	8.65	1.87
OCT 23,87	OCT 22,87	722.0	25.0	4.21	4.31	*****	0.0769	1.80	0.79
OCT 25,87	OCT 24,87	937.0	48.0	3.92	4.03	*****	0.1370	3.70	1.21
OCT 28,87	OCT 27,87	450.0	35.0	4.05	4.16	*****	0.1050	4.00	0.47
OCT 29,87	OCT 28,87	81.0	5.0	*****	5.20	*****	0.0240	0.75	0.31
OCT 30,87	OCT 29,87	16.0	28.0	*****	4.87	*****	0.0364	3.00	1.83
OCT 31,87	OCT 30,87	70.0	65.0	*****	4.02	*****	0.1600	4.35	2.67
NOV 3,87	NOV 2,87	350.0	20.0	4.28	4.49	*****	0.0616	2.40	0.46
NOV 4,87	NOV 3,87	453.0	20.0	4.29	4.47	*****	0.0622	2.45	0.48
NOV 5,87	NOV 4,87	394.0	20.0	4.29	4.47	*****	0.0168	0.85	0.01
NOV 6,87	NOV 5,87	118.0	11.0	5.15	5.50	*****	0.0625	1.50	0.58
NOV 8,87	NOV 7,87	412.0	4.0	4.34	4.47	*****	0.0346	1.00	0.22
NOV 8,87	NOV 8,87	938.0	6.0	4.66	4.87	*****	0.0592	2.05	1.03
NOV 12,87	NOV 11,87	63.0	19.0	*****	4.52	*****	0.0778	2.25	0.56
NOV 18,87	NOV 17,87	312.0	24.0	4.20	4.32	*****	0.0496	4.55	1.50
NOV 24,87	NOV 23,87	246.0	27.0	4.71	4.75	*****	0.0216	0.20	0.13
NOV 26,87	NOV 25,87	619.0	3.0	5.08	5.05	*****	0.0327	2.20	1.10
NOV 29,87	NOV 28,87	836.0	4.0	4.76	4.68	*****	0.1310	2.00	0.51
NOV 30,87	NOV 29,87	165.0	43.0	3.97	4.01	*****	0.0438	*****	*****
DEC 8,87	DEC 7,87	115.0	16.5	4.56	4.54	*****	*****	*****	*****
DEC 9,87	DEC 8,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 10,87	DEC 9,87	216.0	27.5	4.21	4.12	*****	0.0835	2.45	0.32

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM				#06	PAGE : 9			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 9,87	SEP 8,87	0.34	0.07	0.030	0.025	<T	0.110	0.0437
SEP 10,87	SEP 9,87	0.20	!IS	0.015	0.035	0.035	0.485	0.0851
SEP 12,87	SEP 11,87	0.20	0.21	<T	0.030	0.005	0.460	0.1738
SEP 14,87	SEP 13,87	0.40	0.21	0.045	0.075	<T	0.900	0.1288
SEP 18,87	SEP 17,87	2.00	0.23	0.180	0.155	0.130	0.480	0.0676
SEP 20,87	SEP 19,87	0.42	<T	0.025	<T	0.015	0.190	0.0813
SEP 21,87	SEP 20,87	0.08	<T	<M	<T	0.020	0.175	0.0676
SEP 22,87	SEP 21,87	0.30	<T	0.035	0.075	0.015	0.495	0.0562
SEP 28,87	SEP 27,87	0.48	<T	0.050	0.030	0.015	0.290	0.0457
SEP 30,87	SEP 29,87	1.14	0.15	0.135	0.030	0.025	0.475	0.0575
OCT 1,87	SEP 30,87	0.02	<T	0.010	<T	<T	0.025	0.0245
OCT 2,87	OCT 1,87	3.10	0.34	0.510	0.315	0.190	1.550	0.0001
OCT 3,87	OCT 2,87	0.64	0.11	0.065	0.030	0.025	0.305	0.0002
OCT 6,87	OCT 5,87	0.16	0.01	0.005	0.005	0.010	0.045	0.0214
OCT 8,87	OCT 7,87	0.54	0.54	0.270	0.200	0.135	0.950	0.0417
OCT 10,87	OCT 9,87	2.64	0.28	0.035	<T	0.020	0.450	0.0569
OCT 19,87	OCT 18,87	0.40	0.28	0.085	0.075	0.075	0.555	0.0871
OCT 20,87	OCT 19,87	0.76	0.28	0.060	0.040	0.025	0.295	0.1778
OCT 21,87	OCT 20,87	0.50	!LA	0.060	<T	0.010	0.295	0.0490
OCT 23,87	OCT 22,87	0.18	0.19	0.040	<T	<T	0.370	0.0692
OCT 25,87	OCT 24,87	0.38	0.16	0.030	0.090	!IS	0.015	0.0063
OCT 28,87	OCT 27,87	0.14	0.18	<T	0.115	0.070	0.760	0.0135
OCT 29,87	OCT 28,87	0.14	0.13	0.020	0.010	0.030	1.200	0.0955
OCT 30,87	OCT 29,87	2.06	0.53	0.185	0.010	0.030	0.410	0.0324
OCT 31,87	OCT 30,87	1.50	0.44	0.185	0.010	0.030	0.405	0.0339
NOV 3,87	NOV 2,87	0.12	0.13	<T	0.015	0.030	0.410	0.0339
NOV 4,87	NOV 3,87	0.86	0.15	<T	0.015	0.030	0.410	0.0339
NOV 5,87	NOV 4,87	<T	0.23	<T	0.015	0.030	0.410	0.0339
NOV 6,87	NOV 5,87	0.08	<T	0.01	0.020	0.015	0.005	0.0032
NOV 9,87	NOV 8,87	<T	0.01	<M	0.005	0.005	0.280	0.0359
NOV 9,87	NOV 8,87	0.06	<T	0.010	0.015	0.015	0.125	0.0155
NOV 12,87	NOV 11,87	0.26	0.11	0.070	0.035	0.050	0.595	0.0302
NOV 18,87	NOV 17,87	0.64	0.31	0.035	<T	0.165	0.210	0.0479
NOV 24,87	NOV 23,87	1.86	0.54	0.190	0.090	0.245	1.160	0.0178
NOV 26,87	NOV 25,87	0.06	<T	0.005	0.005	0.005	0.005	0.0069
NOV 29,87	NOV 28,87	<T	0.04	<M	0.005	0.015	0.030	0.0209
NOV 30,87	NOV 29,87	0.14	0.06	0.005	0.005	0.020	0.035	0.0977
DEC 8,87	DEC 7,87	0.80	0.11	<T	0.015	0.070	0.125	0.0288
DEC 9,87	DEC 8,87	0.11	0.055	<T	0.015	0.070	0.125	0.0288
DEC 10,87	DEC 9,87	0.18	0.22	<T	0.010	0.080	0.095	0.0759

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #806										PAGE : 10		
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
				01-RAIN		01-STD.		02-APIOS	01-HOE			
				02-SNOW		02-NIPHER		03-SPECIAL	03-AES			
				03-COMP/04-OTHER								
DEC 11,87	DEC 10,87	750 755	900 1800	1	0.3	2	76204	2	1	468	N	
DEC 12,87	DEC 11,87	755 930	1400 900	3	3.1	2	76205	2	1	88	.	
DEC 13,87	DEC 12,87	930 1000	1730 600	3	6.3	2	76206	2	1	69		
DEC 16,87	DEC 15,87	800 755	915 200	2	23.5	2	76207	2	1	38	N	
DEC 20,87	DEC 19,87	755 950	100 900	3	8.0	1	76208	2	1	86		
DEC 21,87	DEC 20,87	950 755	1100 1700	3	20.0	2	76209	2	1	65		
DEC 23,87	DEC 22,87	755 755	2000 700	2	1.3	2	76210	2	1	116	H	
DEC 25,87	DEC 24,87	1000 1000	*****	1	*****	2	76211	2	1	*****	*****	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 11,87	DEC 10,87	90.0	D	25.0	4.36	*****	D	0.0720	0.81
DEC 12,87	DEC 11,87	176.0	D	25.5	4.32	*****	D	0.0698	0.82
DEC 13,87	DEC 12,87	202.0	D	6.0	4.04	*****	D	0.0300	0.36
DEC 16,87	DEC 15,87	561.0	15.5	4.46	4.53	*****	D	0.0505	0.52
DEC 20,87	DEC 19,87	446.0	33.0	4.13	4.20	*****	D	0.0919	0.68
DEC 21,87	DEC 20,87	834.0	16.5	4.44	4.52	*****	D	0.0508	0.34
DEC 23,87	DEC 22,87	97.0	17.0	*****	6.37	*****	D	0.0208	1.15
DEC 25,87	DEC 24,87	432.0	20.0	*****	4.42	*****	D	0.0658	0.39

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AERO/CHEM				#06	PAGE : 12			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 11-87	DEC 10-87	D	<T	0.01	<T	0.010	0.025	D
DEC 12-87	DEC 11-87	0.26	0.10	<T	0.020	<T	0.340	D
DEC 13-87	DEC 12-87	0.28	<T	<T	0.020	<T	0.350	D
DEC 16-87	DEC 15-87	0.24	0.01	<T	0.010	<T	0.165	0.0102
DEC 20-87	DEC 19-87	0.18	0.01	<T	0.010	<T	0.080	0.0295
DEC 21-87	DEC 20-87	0.20	0.21	D	0.025	D	0.125	D
DEC 22-87	DEC 21-87	0.08	0.11	<T	0.010	<T	0.065	0.0302
DEC 23-87	DEC 22-87	1.88	0.26	D	0.145	D	0.165	0.0004
DEC 25-87	DEC 24-87	0.22	0.07	<T	0.010	<T	0.165	0.0380

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEN										800	PAGE : 1	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	SAMPLE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS	
				01-RAIN	02-SNOW	01-STD.		02-SPECIAL	03-AES		FIELD OFFICE	
				03-COMP/04-OTHER		02-NIPHER						
JAN 7,87	JAN 6,87	730 830	2400 800	2	1.4	2	45469	2	1	95		
JAN 9,87	JAN 8,87	800 800	1000 500	2	2.6	2	45472	2	1	93		
JAN 12,87	JAN 9,87	800 800	550 1200	3	3.6	2	45475	2	1	61	Y3	
JAN 13,87	JAN 12,87	800 800	800 1200	3	0.3	2	45478	2	1	72	E	
JAN 15,87	JAN 14,87	800 830	****	3	0.2	2	45481	2	1	15	N	
JAN 16,87	JAN 15,87	830 1000	1100 2100	3	0.2	2	45484	2	1	93		
JAN 19,87	JAN 17,87	800 830	300 1900	2	6.6	2	45487	2	1	85	Y2	
JAN 21,87	JAN 20,87	800 800	1900 800	2	2.5	2	45490	2	1	76		
JAN 22,87	JAN 21,87	800 800	800 1800	2	1.9	2	45493	2	1	71		
JAN 23,87	JAN 22,87	800 800	1800 800	2	3.6	2	45496	2	1	77		
JAN 26,87	JAN 23,87	800 1100	800 1100	2	0.2	2	45499	2	1	31	E	
JAN 28,87	JAN 26,87	800 1250	400 1250	2	0.2	2	45502	2	1	116	Y2	
JAN 29,87	JAN 28,87	1250 800	1250 400	2	0.5	2	45505	2	1	84		
FEB 2,87	JAN 30,87	800 800	800 800	3	13.0	2	45508	2	1	67	Y3	
FEB 3,87	FEB 2,87	800 830	2200 830	3	1.5	2	45511	2	1	84		
FEB 4,87	FEB 3,87	830 900	830 1530	2	0.7	2	45514	2	1	57		
FEB 5,87	FEB 4,87	900 800	900 1500	2	1.6	2	45517	2	1	115	F	
FEB 6,87	FEB 5,87	800 800	1800 2200	2	1.6	2	45520	2	1	86		
FEB 7,87	FEB 6,87	800 900	1400 100	2	2.4	2	45523	2	1	53		
FEB 9,87	FEB 7,87	900 800	2400 1500	2	19.4	2	45526	2	1	74	Y2	
FEB 10,87	FEB 9,87	800 800	2200 800	2	0.4	2	45529	2	1	72		
FEB 13,87	FEB 12,87	830 800	1800 2200	2	1.5	2	45532	2	1	93		
FEB 23,87	FEB 22,87	800 830	100 500	2	0.2	2	45537	2	1	79	Y2	
MAR 2,87	FEB 28,87	800 800	30 800	3	22.6	2	45540	2	1	46		
MAR 3,87	MAR 2,87	800 730	800 1200	2	1.4	2	45545	2	1	75	E	
MAR 4,87	MAR 3,87	730 745	1200 2400	2	0.2	2	45548	2	1	107		
MAR 26,87	MAR 25,87	930 830	230 830	1	3.7	2	45552	2	1	134	N	
MAR 27,87	MAR 26,87	830 810	830 1200	1	3.2	1	45555	2	1	75		
MAR 30,87	MAR 29,87	800 745	2300 745	1	11.4	1	45558	2	1	107		
APR 1,87	MAR 30,87	745 1000	1700 2200	3	37.0	4	45561	2	1	57	Y2	
APR 2,87	APR 1,87	1000 800	2000 800	2	6.0	2	45566	2	1	40	N	
APR 3,87	APR 2,87	800 800	1600 800	2	2.6	2	45569	2	1	43	N	
APR 5,87	APR 4,87	830 815	2300 815	1	4.3	2	45572	2	1	123	NC	
APR 6,87	APR 5,87	815 800	100 400	1	0.1	2	45575	2	1	187	N	
APR 13,87	APR 12,87	815 750	1630 1900	1	4.6	1	45579	2	1	101	N	
APR 22,87	APR 21,87	755 900	1500 1700	1	0.4	1	45582	2	1	77	H	
APR 24,87	APR 23,87	750 740	1900 2100	1	1.6	1	45585	2	1	83	C	
APR 26,87	APR 25,87	745 750	1630 2030	1	7.8	1	45588	2	1	101	Q	
APR 28,87	APR 27,87	800 800	1230 2030	1	3.1	1	45591	2	1	105	J	
APR 30,87	APR 29,87	800 800	1800 2200	1	4.3	1	45594	2	1	90	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

#08

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO pH 3 MG/L	TOTAL H+ GRAM MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 7-87	JAN 6-87	66.0	78.9	*****	3.75	*****	0.1940	5.60	2.50
JAN 9-87	JAN 8-87	156.0	29.0	*****	4.21	*****	0.0746	3.30	0.36
JAN 12-87	JAN 9-87	149.0	23.6	4.26	4.29	*****	0.0695	1.10	0.62
JAN 13-87	JAN 12-87	14.0	7.8	*****	4.87	*****	0.0284	0.75	0.07
JAN 15-87	JAN 14-87	2.0	*****	*****	*****	*****	0.0724	2.60	0.59
JAN 16-87	JAN 15-87	12.0	29.3	*****	4.28	*****	0.0628	0.20	0.42
JAN 19-87	JAN 17-87	361.0	14.7	6.49	4.49	*****	0.0590	0.70	0.67
JAN 20-87	JAN 18-87	123.0	23.3	4.36	4.31	*****	0.0416	0.80	0.34
JAN 21-87	JAN 20-87	87.0	14.8	*****	4.02	*****	0.1010	0.30	1.20
JAN 22-87	JAN 21-87	178.0	39.2	4.06	*****	*****	*****	*****	*****
JAN 23-87	JAN 22-87	15.0	*****	*****	*****	*****	0.0890	1.35	0.88
JAN 26-87	JAN 25-87	15.0	15.4	*****	4.09	*****	0.0892	1.30	0.93
JAN 28-87	JAN 26-87	27.0	35.1	4.16	4.10	*****	0.0685	1.30	0.54
FEB 2-87	JAN 30-87	566.0	34.3	*****	4.29	*****	0.0712	1.50	0.41
FEB 3-87	FEB 2-87	61.0	23.5	*****	4.23	*****	0.0258	0.25	0.05
FEB 4-87	FEB 3-87	26.0	24.7	5.01	4.43	*****	0.0621	0.65	0.65
FEB 5-87	FEB 4-87	133.0	4.7	*****	4.30	*****	0.0853	3.15	1.43
FEB 6-87	FEB 5-87	69.0	21.5	4.18	4.21	*****	0.0604	0.65	0.70
FEB 7-87	FEB 6-87	103.0	44.1	4.32	4.36	*****	0.0358	0.45	0.43
FEB 9-87	FEB 7-87	661.0	21.6	*****	4.70	*****	0.1180	0.80	1.41
FEB 10-87	FEB 9-87	19.0	12.0	*****	4.00	*****	0.0698	0.55	0.78
FEB 13-87	FEB 12-87	70.0	46.2	*****	4.25	*****	0.0515	0.75	0.26
FEB 23-87	FEB 22-87	12.0	25.5	4.66	4.51	*****	0.0490	0.90	0.26
FEB 24-87	FEB 23-87	1147.0	14.4	*****	4.52	*****	*****	*****	*****
MAR 3-87	MAR 2-87	42.0	15.4	*****	*****	*****	0.1160	2.95	0.86
MAR 4-87	MAR 3-87	6.0	*****	*****	*****	*****	0.1280	3.85	1.09
MAR 26-87	MAR 25-87	319.0	43.0	4.00	4.14	*****	0.1130	3.40	0.69
MAR 27-87	MAR 26-87	154.0	51.5	3.94	4.07	*****	0.0390	0.90	0.09
MAR 30-87	MAR 29-87	783.0	42.0	3.99	4.13	*****	0.0792	2.70	0.77
APR 1-87	MAR 30-87	1370.0	10.5	4.55	4.72	*****	0.1160	2.70	0.85
APR 2-87	APR 1-87	154.0	27.0	4.18	4.20	*****	0.0255	0.60	0.07
APR 3-87	APR 2-87	73.0	43.0	*****	5.17	*****	0.0120	0.30	0.04
APR 5-87	APR 4-87	340.0	7.0	4.84	*****	*****	0.1640	6.35	1.39
APR 6-87	APR 5-87	12.0	4.5	*****	3.93	*****	0.0210	6.55	0.99
APR 13-87	APR 12-87	312.0	57.0	3.83	*****	*****	0.4310	14.10	2.95
APR 22-87	APR 21-87	20.0	26.0	*****	UG	*****	0.0415	1.65	0.51
APR 24-87	APR 23-87	86.0	100.0	*****	LG	*****	0.0197	1.20	0.34
APR 26-87	APR 25-87	809.0	15.0	4.45	4.68	*****	0.0199	5.55	1.10
APR 28-87	APR 27-87	209.0	8.0	UG	UG	*****	*****	*****	*****
APR 29-87	APR 28-87	250.0	39.0	5.05	UG	*****	*****	*****	*****
APR 30-87	APR 29-87	250.0	39.0	6.64	UG	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM				#08	PAGE : 3			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 7-87	JAN 6-87	0.76	0.70	0.110	0.045	0.280	1.500	0.1778
JAN 9-87	JAN 8-87	0.12	0.10	<T	<T	0.045	0.445	0.0617
JAN 12-87	JAN 9-87	<T	0.12	<T	0.005	0.045	0.150	0.0513
JAN 13-87	JAN 12-87	IIS	0.06	IIS	IIS	IIS	IIS	0.0135
JAN 15-87	JAN 14-87	*****	*****	*****	*****	*****	*****	*****
JAN 16-87	JAN 15-87	0.14	0.14	<T	0.040	0.080	0.600	0.0525
JAN 19-87	JAN 17-87	0.06	0.10	<T	0.005	<T	0.010	0.0324
JAN 21-87	JAN 20-87	0.10	0.16	<T	0.010	0.070	0.155	0.0490
JAN 22-87	JAN 21-87	<T	0.15	<T	0.010	0.085	0.085	0.0302
JAN 23-87	JAN 22-87	<T	0.19	<T	0.005	0.040	0.025	0.0955
JAN 24-87	JAN 23-87	*****	*****	*****	*****	*****	*****	*****
JAN 26-87	JAN 26-87	<T	0.18	<T	0.010	0.080	<T	IIR
JAN 28-87	JAN 28-87	0.10	0.25	<T	0.010	0.100	0.260	0.0013
JAN 29-87	JAN 28-87	0.08	0.19	<T	0.015	0.100	0.300	0.0794
FEB 2-87	JAN 30-87	0.16	0.19	<T	0.025	0.075	0.315	0.0513
FEB 3-87	FEB 2-87	<T	0.18	<T	0.025	0.080	0.125	0.0589
FEB 4-87	FEB 3-87	0.08	0.20	<T	0.025	0.080	0.125	0.0589
FEB 5-87	FEB 4-87	<T	0.06	<T	0.005	<T	0.010	0.0079
FEB 6-87	FEB 5-87	<T	0.25	<T	0.015	0.065	0.175	0.0372
FEB 7-87	FEB 6-87	0.18	0.25	0.040	0.030	0.125	1.250	0.0617
FEB 8-87	FEB 7-87	0.20	0.34	0.040	0.010	0.020	0.240	0.0437
FEB 9-87	FEB 8-87	0.08	0.16	<T	0.010	<T	0.080	0.0200
FEB 10-87	FEB 9-87	0.18	0.16	0.040	0.015	0.085	0.140	0.1000
FEB 13-87	FEB 12-87	0.10	0.57	<T	0.015	0.210	0.120	0.0562
FEB 23-87	FEB 22-87	0.14	0.20	0.030	0.070	0.100	0.020	0.0309
MAR 3-87	FEB 28-87	<T	<T	<T	0.005	<T	0.010	0.0302
MAR 4-87	MAR 3-87	0.10	0.15	<T	0.030	0.105	0.010	0.0302
MAR 4-87	MAR 3-87	*****	*****	*****	*****	*****	*****	*****
MAR 26-87	MAR 25-87	0.34	0.18	0.040	0.030	0.050	0.350	0.0724
MAR 27-87	MAR 26-87	0.20	0.17	<T	0.100	0.080	0.780	0.0051
MAR 30-87	MAR 29-87	0.20	<T	<T	0.025	0.045	0.375	0.0741
APR 1-87	MAR 30-87	<T	0.01	<T	0.005	<T	0.010	0.0191
APR 2-87	APR 1-87	0.06	0.08	<T	0.010	<T	0.060	0.0631
APR 3-87	APR 2-87	<T	<T	<T	0.020	0.050	0.340	0.0794
APR 5-87	APR 4-87	0.18	<T	<T	0.050	0.180	0.030	0.0068
APR 6-87	APR 5-87	<T	0.15	<T	0.030	0.115	<T	IIR
APR 13-87	APR 12-87	0.78	0.36	0.100	0.125	0.110	0.950	0.1175
APR 22-87	APR 21-87	1.50	0.32	0.235	0.275	0.140	1.950	0.0003
APR 26-87	APR 25-87	0.68	0.23	0.115	0.155	0.180	2.000	0.3690
APR 28-87	APR 27-87	0.38	0.23	0.045	0.080	0.070	0.345	0.0209
APR 29-87	APR 28-87	0.30	0.36	0.065	0.155	0.225	0.155	0.0008
APR 30-87	APR 29-87	2.56	0.43	0.540	0.250	0.220	1.850	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM										#08	PAGE : 4		
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	DEPTH (MM)	GAUGE TYPE	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS	
				01-RAIN	01-STD.	02-NIPHER	03-SPECIAL						
03-COMP/04-OTHER													
MAY 11,87	MAY 10,87	800 800	530 800	1	3.4	1		45598	2	1	104	J	
MAY 12,87	MAY 11,87	800 800	800 1400	1	6.2	1		45601	2	1	99	J	
MAY 15,87	MAY 14,87	800 800	1900 2100	1	24.4	1		45604	2	1	101	J	
MAY 17,87	MAY 16,87	800 800	2000 2200	1	1.8	1		45639	2	1	96	J	
MAY 18,87	MAY 17,87	800 800	900 1000	1	0.6	1		45612	2	1	31	NH	
MAY 19,87	MAY 18,87	800 800	****	1	0.3	1		45615	2	1	5	E	
MAY 22,87	MAY 21,87	745 730	****	1	8.5	1		45618	2	1	108	N	
MAY 23,87	MAY 22,87	730 730	2330 30	1	0.9	1		45621	2	1	86	N	
MAY 24,87	MAY 23,87	730 800	1330 1530	1	2.6	1		45624	2	1	48	N	
MAY 25,87	MAY 24,87	800 750	830 900	1	0.4	1		45627	2	1	35	NHCH	
MAY 27,87	MAY 26,87	800 825	330 600	1	15.5	1		45630	2	1	104	N	
MAY 28,87	MAY 27,87	825 800	1030 1200	1	4.8	1		45635	2	1	90	N	
JUN 1,87	MAY 31,87	800 730	900 1230	1	4.3	1		45638	2	1	103	Q	
JUN 2,87	JUN 1,87	730 745	1930 2030	1	0.9	1		45641	2	1	78	TH	
JUN 3,87	JUN 2,87	745 800	500 700	1	1.2	1		45644	2	1	96	TCH	
JUN 4,87	JUN 3,87	800 750	1045 1115	1	2.2	1		45647	2	1	107	TH	
JUN 6,87	JUN 5,87	800 745	1415 1430	1	0.4	1		45650	2	1	132	NT	
JUN 7,87	JUN 6,87	745 715	230 700	1	8.6	1		45653	2	1	104	HM	
JUN 8,87	JUN 7,87	715 800	630 800	1	9.5	1		45656	2	1	104	H	
JUN 9,87	JUN 8,87	800 530	800 1805	1	0.2	1		45659	2	1	23	E	
JUN 10,87	JUN 9,87	530 630	900 1100	1	7.2	1		45662	2	1	91	NH	
JUN 12,87	JUN 11,87	600 730	1645 2100	1	0.2	1		45665	2	1	102	TH	
JUN 13,87	JUN 12,87	730 600	730 900	1	7.2	1		45668	2	1	46	E	
JUN 15,87	JUN 14,87	1045 730	530 600	1	1.5	1		45672	2	1	96	N	
JUN 23,87	JUN 22,87	600 645	****	1	0.1	1		45675	2	1	***	E	
JUN 26,87	JUN 25,87	800 745	600 145	1	4.4	1		45678	2	1	102	N	
JUN 28,87	JUN 26,87	745 800	1000 1015	1	0.4	1		45681	2	1	202	N	
JUN 29,87	JUN 28,87	830 700	1430 1530	1	4.0	1		45684	2	1	99	N	
JUN 30,87	JUN 29,87	700 630	700	1	0.6	1		45687	2	1	96	N	
JUL 4,87	JUL 3,87	735 745	2115 2200	1	13.9	1		45690	2	1	100	C	
JUL 14,87	JUL 13,87	1100 700	230 700	1	3.9	1		45693	2	1	109	C	
JUL 15,87	JUL 14,87	700 800	700 1100	1	17.4	1		45696	2	1	100	C	
JUL 19,87	JUL 18,87	800 800	2000 2010	1	7.4	1		45703	2	1	99	C	
JUL 20,87	JUL 19,87	800 800	2290 2330	1	1.2	1		45705	2	1	94	N	
JUL 25,87	JUL 24,87	950 730	130 145	1	3.2	1		45707	2	1	98	N	
JUL 30,87	JUL 29,87	800 800	130 130	1	2.4	1		45710	2	1	94	N	
AUG 3,87	AUG 2,87	630 630	1100 1400	1	0.8	1		45712	2	1	81	N	
AUG 5,87	AUG 4,87	630 630	1020 1040	1	6.2	1		45714	2	1	103	N	
AUG 8,87	AUG 7,87	750 750	1130 1300	1	3.8	1		45716	2	1	107	N	
AUG 8,87	AUG 7,87	750 750	1130 1300	1	1.8	1		45718	2	1	95	N	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AERO/CHEM										808	PAGE : 5	
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UNH0/CM	PH FIELD	PH LAB	TOTAL H+ TO PH6.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L			
MAY 11,87	MAY 10,87	228.0	34.5	4.26	4.77	*****	0.0574	5.55	1.01			
MAY 12,87	MAY 11,87	395.0	42.5	4.09	4.59	*****	0.0768	6.10	0.98			
MAY 15,87	MAY 14,87	1594.0	42.4	4.02	4.15	*****	0.0945	4.75	0.66			
MAY 17,87	MAY 16,87	111.0	14.0	4.73	UG	*****	0.0156	2.10	0.44			
MAY 18,87	MAY 17,87	12.0	25.6	*****	UG	*****	0.0392	4.30	0.85			
MAY 19,87	MAY 18,87	1.0	INR	*****	INR	*****	*****	INR	INR			
MAY 22,87	MAY 21,87	592.0	73.0	*****	3.78	*****	0.1920	7.10	1.01			
MAY 23,87	MAY 22,87	50.0	55.0	*****	4.12	*****	0.1080	6.70	1.50			
MAY 24,87	MAY 23,87	80.0	12.0	*****	4.71	*****	0.0385	1.10	0.25			
MAY 25,87	MAY 24,87	9.0	3.9	*****	5.76	*****	0.0162	0.40	0.01			
MAY 27,87	MAY 26,87	1036.0	82.0	3.73	UG	*****	0.2090	8.70	0.99			
MAY 28,87	MAY 27,87	278.0	26.0	4.20	4.37	*****	0.0666	2.40	0.44			
JUN 1,87	MAY 31,87	284.0	38.4	4.06	4.02	*****	0.1080	3.75	0.59			
JUN 3,87	JUN 2,87	45.0	48.6	*****	3.85	*****	0.1360	2.85	1.04			
JUN 5,87	JUN 4,87	74.0	100.0	*****	3.42	*****	0.3320	10.30	2.05			
JUN 6,87	JUN 5,87	152.0	49.1	3.95	LG	*****	0.1320	5.15	0.77			
JUN 8,87	JUN 7,87	34.0	34.2	*****	3.97	*****	0.1000	4.30	0.13			
JUN 9,87	JUN 8,87	576.0	19.2	4.30	*****	*****	0.0561	1.70	0.38			
JUN 10,87	JUN 9,87	636.0	28.8	4.24	4.32	*****	0.0674	3.40	0.92			
JUN 12,87	JUN 11,87	423.0	10.7	4.57	4.52	*****	0.0367	1.00	0.04			
JUN 13,87	JUN 12,87	475.0	53.4	3.86	3.81	*****	0.1460	5.40	0.78			
JUN 15,87	JUN 14,87	93.0	82.8	*****	3.85	*****	0.1820	9.70	1.65			
JUN 19,87	JUN 18,87	*****	*****	*****	*****	*****	*****	*****	*****			
JUN 23,87	JUN 22,87	290.0	58.3	3.88	3.89	*****	0.1560	4.95	0.80			
JUN 26,87	JUN 25,87	52.0	37.8	4.63	4.15	*****	0.0982	4.85	0.35			
JUN 27,87	JUN 26,87	254.0	10.2	4.91	4.91	*****	0.0305	1.00	0.20			
JUN 28,87	JUN 27,87	37.0	24.5	4.63	4.61	*****	0.0606	3.20	0.50			
JUN 30,87	JUN 29,87	893.0	20.4	4.31	4.39	*****	0.0592	1.95	0.30			
JUL 4,87	JUL 3,87	273.0	14.3	3.90	3.90	*****	0.1420	5.60	1.05			
JUL 14,87	JUL 13,87	1126.0	6.7	4.75	5.17	*****	0.0250	0.50	0.10			
JUL 15,87	JUL 14,87	471.0	5.6	4.98	5.32	*****	0.0218	0.25	0.10			
JUL 19,87	JUL 18,87	73.0	22.4	4.98	4.53	*****	0.0552	2.85	0.45			
JUL 20,87	JUL 19,87	202.0	25.2	4.19	4.34	*****	0.0702	2.40	0.55			
JUL 25,87	JUL 24,87	146.0	21.8	4.28	4.40	*****	0.0616	2.05	0.50			
JUL 30,87	JUL 29,87	42.0	32.3	*****	4.31	*****	0.0787	3.60	0.80			
AUG 3,87	AUG 2,87	412.0	59.8	3.91	3.83	*****	0.1650	5.60	0.80			
AUG 5,87	AUG 4,87	263.0	17.6	4.40	4.46	*****	0.0515	1.85	0.25			
AUG 8,87	AUG 7,87	110.0	68.6	3.87	3.80	*****	0.1740	5.55	1.65			

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM				#08	PAGE : 6			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 11,87	MAY 10,87	1.16	0.25	0.205	0.115	0.065	1.380	0.0170
MAY 12,87	MAY 11,87	1.14	0.24	0.175	0.075	0.065	1.250	0.0257
MAY 15,87	MAY 14,87	0.36	0.14	0.045	0.025	<T	0.800	0.0708
MAY 17,87	MAY 16,87	0.64	0.10	0.130	0.075	0.030	0.580	0.0008
MAY 18,87	MAY 17,87	1.32	0.30	0.200	0.145	0.120	0.940	0.0004
MAY 19,87	MAY 18,87	INR	INR	INR	INR	INR	INR	INR
MAY 22,87	MAY 21,87	0.24	0.23	0.035	0.055	0.045	0.705	0.1660
MAY 23,87	MAY 22,87	0.68	0.06	0.140	0.130	0.125	1.650	0.0759
MAY 24,87	MAY 23,87	0.18	0.31	0.025	0.030	0.025	0.105	0.0195
MAY 25,87	MAY 24,87	0.04	<T	<T	<T	<T	0.005	0.0017
MAY 27,87	MAY 26,87	0.22	0.19	0.030	0.040	0.015	0.950	0.1905
MAY 28,87	MAY 27,87	0.10	0.10	0.010	0.020	0.025	0.355	0.0427
MAY 29,87	MAY 28,87	0.42	0.23	0.030	0.110	0.100	0.495	0.0955
JUN 1,87	MAY 31,87	0.20	0.23	0.040	0.055	0.050	0.080	0.1413
JUN 2,87	JUN 1,87	0.56	0.45	0.065	0.095	0.105	0.460	0.3802
JUN 3,87	JUN 2,87	0.22	0.15	0.025	0.035	0.040	0.700	0.1349
JUN 6,87	JUN 5,87	0.28	0.09	0.055	0.220	0.065	0.005	0.1072
JUN 7,87	JUN 6,87	0.08	0.15	0.010	0.065	0.065	0.345	0.0513
JUN 8,87	JUN 7,87	0.66	0.21	0.115	0.070	0.040	0.950	0.0479
JUN 9,87	JUN 8,87	INR	INR	INR	INR	INR	INR	INR
JUN 10,87	JUN 9,87	0.06	0.08	0.010	0.025	0.035	0.040	0.0302
JUN 12,87	JUN 11,87	0.58	0.20	0.065	0.065	0.035	0.410	0.1549
JUN 13,87	JUN 12,87	INR	INR	INR	INR	INR	INR	INR
JUN 15,87	JUN 14,87	1.66	0.40	0.390	0.080	0.075	1.050	0.1413
JUN 23,87	JUN 22,87	INR	INR	INR	INR	INR	INR	INR
JUN 26,87	JUN 25,87	0.30	0.30	0.035	0.090	0.090	0.230	0.1288
JUN 27,87	JUN 26,87	0.10	0.15	0.010	0.010	0.060	0.715	0.0708
JUN 28,87	JUN 27,87	0.14	0.10	0.010	0.035	0.030	0.200	0.0123
JUN 29,87	JUN 28,87	0.52	0.15	0.110	0.070	0.060	0.405	0.0389
JUN 30,87	JUN 29,87	0.16	0.05	0.015	0.010	0.010	0.225	0.0407
JUL 1,87	JUL 3,87	0.44	0.10	0.060	0.005	0.005	1.000	0.1047
JUL 14,87	JUL 13,87	0.02	0.25	0.005	0.080	0.120	0.095	0.0068
JUL 15,87	JUL 14,87	0.52	0.30	0.005	0.100	0.260	0.015	0.0048
JUL 18,87	JUL 17,87	0.02	0.10	0.105	0.055	0.035	0.410	0.0295
JUL 20,87	JUL 19,87	0.50	0.15	0.070	0.035	0.045	0.135	0.0457
JUL 25,87	JUL 24,87	0.36	0.10	0.070	0.040	0.120	0.250	0.0398
JUL 30,87	JUL 29,87	0.92	0.30	0.145	0.145	0.100	0.380	0.0490
AUG 3,87	AUG 2,87	0.18	0.20	0.025	0.055	0.045	0.425	0.1479
AUG 5,87	AUG 4,87	0.20	0.10	0.020	0.045	0.035	0.205	0.0347
AUG 8,87	AUG 7,87	0.98	0.35	0.165	0.100	0.065	0.460	0.1585

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEN										808	PAGE : 7		
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(HM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE		
										01-STD. 02-NIPMER		01-HOE 03-AES	
										03-COMP/04-OTHER		02-APIOS 03-SPECIAL	
AUG 10,87	AUG 9,87	800	800	1200 1400	1	2.7	45720	2	1	101	H		
AUG 14,87	AUG 13,87	1130	730	515 630	1	1.9	45723	2	1	98	C		
AUG 15,87	AUG 14,87	730	755	200 745	1	15.8	45725	2	1	104			
AUG 17,87	AUG 16,87	800	800	130 300	1	1.2	45729	2	1	89			
AUG 18,87	AUG 17,87	800	640	1700 1730	1	0.6	45731	2	1	46	N		
AUG 19,87	AUG 18,87	640	740	200 300	1	1.5	45733	2	1	89			
AUG 20,87	AUG 19,87	740	730	2355 5	1	2.8	45735	2	1	96			
AUG 22,87	AUG 21,87	800	815	330 600	1	10.6	45737	2	1	106			
AUG 23,87	AUG 22,87	815	615	1200 1300	1	1.2	45739	2	1	83			
AUG 29,87	AUG 28,87	745	800	430 600	1	3.0	45742	2	1	100			
AUG 31,87	AUG 30,87	830	730	30 700	1	22.2	45744	2	1	104			
SEP 1,87	AUG 31,87	730	640	*****	1	0.5	45746	2	1	49	HHH		
SEP 2,87	SEP 1,87	640	700	2100 2330	1	2.0	45749	2	1	88	JH		
SEP 3,87	SEP 2,87	700	800	*****	1	0.4	45751	2	1	15	E		
SEP 8,87	SEP 7,87	820	640	1430 1500	1	0.7	45752	2	1	82			
SEP 9,87	SEP 8,87	640	800	1800 1930	1	2.1	45754	2	1	95			
SEP 12,87	SEP 11,87	800	800	2130 2230	1	2.6	45756	2	1	91			
SEP 14,87	SEP 13,87	800	800	1700 1800	1	20.0	45758	2	1	104			
SEP 20,87	SEP 19,87	745	800	930 1930	1	14.0	45765	2	1	101			
SEP 21,87	SEP 20,87	800	800	1400 100	1	3.8	45767	2	1	86			
SEP 22,87	SEP 21,87	800	730	1300 1330	1	0.4	45769	2	1	70			
SEP 24,87	SEP 23,87	815	815	*****	1	7.3	45771	2	1	101	HH		
SEP 26,87	SEP 25,87	815	815	1900 2030	1	4.4	45773	2	1	96	N		
SEP 29,87	SEP 28,87	815	630	*****	1	0.3	45775	2	1	20	E		
SEP 30,87	SEP 29,87	630	630	1430 1930	1	10.2	45777	2	1	101			
OCT 1,87	SEP 30,87	830	630	1700 1930	1	1.2	45779	2	1	79			
OCT 2,87	OCT 1,87	630	815	2100 800	1	9.4	45781	2	1	100	H		
OCT 3,87	OCT 2,87	815	845	1500 1700	1	1.9	45783	2	1	68			
OCT 6,87	OCT 5,87	815	815	430 700	1	1.6	45785	2	1	96			
OCT 7,87	OCT 6,87	815	815	1645 1730	1	9.3	45787	2	1	102	H		
OCT 8,87	OCT 7,87	815	815	45 310	1	0.6	45789	2	1	52			
OCT 9,87	OCT 8,87	815	800	1230 1410	3	1.2	45791	2	1	85			
OCT 10,87	OCT 9,87	800	800	1930 2000	1	4.0	45793	2	1	100	H		
OCT 12,87	OCT 11,87	815	800	630 800	1	1.0	45795	2	1	57			
OCT 13,87	OCT 12,87	800	800	930 1130	1	1.9	45797	2	1	87			
OCT 16,87	OCT 15,87	815	745	200 600	1	0.2	45799	2	1	46	E		
OCT 18,87	OCT 17,87	815	830	30 600	1	13.5	45801	2	1	89	N		
OCT 19,87	OCT 18,87	830	815	930 1100	1	0.6	45805	2	1	46	N		
OCT 20,87	OCT 19,87	815	730	500 730	1	1.2	45807	2	1	65	JC		
OCT 21,87	OCT 20,87	730	800	1310 1900	3	6.2	45809	2	1	65			

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM				#08	PAGE : 8				
REMOVAL DATE	EXPOSURE DATE	VOLUME	CONDUCT.	PH FIELD	PH LAB	TOTAL H+ TO PH6.3 HG/L	TOTAL H+ GRAN HG/L	SULPHATE MG/L	NITRATE AS N MG/L
		HL	UMHO/CM						
AUG 10:87	AUG 9:87	175.0	10.3	4.48	4.59	*****	0.0398	0.75	0.10
AUG 14:87	AUG 13:87	120.0	>	LG	3.29	*****	0.6220	UG	4.95
AUG 15:87	AUG 14:87	1060.0	68.0	3.31	3.78	*****	0.2100	UG	4.95
AUG 17:87	AUG 16:87	69.0	86.0	3.74	3.74	*****	0.2500	10.10	1.05
AUG 18:87	AUG 17:87	18.0	45.5	*****	4.03	*****	0.1370	5.40	0.81
AUG 19:87	AUG 18:87	86.0	11.0	*****	4.77	*****	0.0401	1.05	0.25
AUG 20:87	AUG 19:87	173.0	4.0	4.89	5.35	*****	0.0227	0.35	0.07
AUG 22:87	AUG 21:87	726.0	22.0	4.26	4.38	*****	0.0673	2.25	0.45
AUG 23:87	AUG 22:87	64.0	23.5	*****	4.33	*****	0.0780	2.90	0.20
AUG 29:87	AUG 28:87	194.0	40.5	4.06	4.03	*****	0.1340	4.70	0.20
AUG 31:87	AUG 30:87	1483.0	16.5	4.55	4.54	*****	0.0544	1.95	0.24
SEP 1:87	AUG 31:87	16.0	2.5	*****	5.62	*****	0.0175	LG	0.03
SEP 2:87	SEP 1:87	114.0	8.0	4.83	5.48	*****	0.0225	0.90	0.12
SEP 3:87	SEP 2:87	4.0	*****	*****	*****	*****	*****	*****	*****
SEP 8:87	SEP 7:87	37.0	>	*****	3.39	*****	0.4720	UG	2.90
SEP 9:87	SEP 8:87	129.0	28.5	4.20	4.24	*****	0.0834	3.40	0.21
SEP 12:87	SEP 11:87	153.0	>	LG	3.52	*****	0.3040	13.25	1.45
SEP 14:87	SEP 13:87	1338.0	43.5	4.03	3.59	*****	0.1000	4.80	0.40
SEP 20:87	SEP 19:87	912.0	16.3	4.41	4.44	*****	0.0575	1.15	0.19
SEP 21:87	SEP 20:87	210.0	44.0	4.00	4.00	*****	0.1210	3.60	0.57
SEP 22:87	SEP 21:87	18.0	8.4	*****	4.78	*****	0.0355	0.80	0.04
SEP 24:87	SEP 23:87	477.0	16.3	*****	4.52	*****	0.0534	1.85	0.10
SEP 26:87	SEP 25:87	273.0	12.6	4.49	4.67	*****	0.0457	1.25	0.27
SEP 28:87	SEP 28:87	4.0	*****	*****	*****	*****	*****	*****	*****
SEP 30:87	SEP 29:87	663.0	36.9	4.08	4.12	*****	0.1020	3.85	0.36
OCT 1:87	SEP 30:87	61.0	19.2	*****	4.49	*****	0.0311	2.35	0.11
OCT 2:87	OCT 1:87	607.0	17.6	4.85	5.09	*****	0.0207	2.60	0.62
OCT 3:87	OCT 2:87	84.0	48.0	*****	6.18	*****	0.1180	1.85	0.25
OCT 6:87	OCT 5:87	111.0	48.0	3.97	4.06	*****	0.0309	3.85	1.26
OCT 7:87	OCT 6:87	614.0	31.8	5.10	5.53	*****	0.0277	6.55	1.19
OCT 8:87	OCT 7:87	27.0	6.9	*****	5.08	*****	0.0799	0.55	0.20
OCT 9:87	OCT 8:87	66.0	27.0	*****	4.31	*****	0.0465	1.25	0.94
OCT 10:87	OCT 9:87	258.0	31.0	4.56	4.73	*****	0.0968	3.75	1.20
OCT 12:87	OCT 11:87	37.0	37.0	*****	4.15	*****	0.0272	2.90	0.62
OCT 13:87	OCT 12:87	106.0	30.0	4.25	4.29	*****	0.0772	2.10	0.71
OCT 16:87	OCT 15:87	6.0	*****	*****	*****	*****	*****	*****	*****
OCT 18:87	OCT 17:87	775.0	27.0	4.27	4.27	*****	0.0711	2.30	0.45
OCT 19:87	OCT 18:87	24.0	9.0	*****	4.64	*****	0.0403	1.30	0.08
OCT 20:87	OCT 19:87	50.0	>	3.72	3.55	*****	0.3150	15.60	3.15
OCT 21:87	OCT 20:87	338.0	95.0	*****	3.70	*****	0.2260	7.25	1.80

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM				#80	PAGE : 9			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 10-87	AUG 9-87	<T	<T	<T	0.005	<T	<M	0.005
AUG 14-87	AUG 13-87	1.86	1.56	0.320	0.070	0.070	0.585	0.5129
AUG 15-87	AUG 14-87	0.34	0.25	0.080	0.025	0.040	0.155	0.1860
AUG 17-87	AUG 16-87	1.16	0.71	0.255	0.120	0.390	0.160	0.1860
AUG 18-87	AUG 17-87	0.28	0.22	0.045	0.040	0.090	0.515	0.0933
AUG 19-87	AUG 18-87	0.12	0.41	<T	0.020	0.280	0.075	0.0170
AUG 20-87	AUG 19-87	0.04	0.08	<T	0.005	0.035	0.050	0.0045
AUG 22-87	AUG 21-87	0.28	0.01	0.040	0.045	0.030	0.335	0.00417
AUG 23-87	AUG 22-87	0.10	<M	0.015	0.020	0.040	0.280	0.0468
AUG 29-87	AUG 28-87	0.26	<M	0.030	0.040	0.045	0.030	0.0933
AUG 31-87	AUG 30-87	0.08	<T	0.005	0.025	<M	0.0288	0.0024
SEP 1-87	AUG 31-87	0.14	<M	<T	0.030	0.035	0.340	0.0024
SEP 2-87	SEP 1-87	0.20	0.55	0.050	0.255	0.035	0.100	0.0033
SEP 3-87	SEP 2-87	*****	*****	*****	*****	*****	*****	*****
SEP 8-87	SEP 7-87	*****	0.69	*****	*****	*****	*****	0.4074
SEP 9-87	SEP 8-87	0.22	0.13	*****	*****	*****	*****	0.0575
SEP 12-87	SEP 11-87	0.34	0.29	<T	0.060	0.085	0.225	0.2570
SEP 14-87	SEP 13-87	0.06	0.09	<T	0.010	<T	0.550	0.0776
SEP 20-87	SEP 19-87	<T	0.02	<M	0.005	<M	0.035	0.0363
SEP 21-87	SEP 20-87	<T	0.03	<T	0.010	<T	0.255	0.0933
SEP 22-87	SEP 21-87	<T	0.02	<T	0.005	<T	<M	0.0166
SEP 24-87	SEP 23-87	0.16	<T	0.025	0.035	<T	0.125	0.0302
SEP 26-87	SEP 25-87	0.52	<T	0.045	0.030	<T	0.080	0.0214
SEP 29-87	SEP 28-87	*****	*****	*****	*****	*****	*****	*****
SEP 30-87	SEP 29-87	0.22	<T	<T	0.010	<T	0.455	0.0759
OCT 1-87	SEP 30-87	0.26	0.15	0.060	0.045	0.090	0.080	0.0324
OCT 2-87	OCT 1-87	0.82	0.05	0.155	0.110	0.035	0.570	0.0081
OCT 3-87	OCT 2-87	0.50	0.04	0.090	0.085	0.100	0.295	0.0007
OCT 6-87	OCT 5-87	0.96	0.12	0.115	0.070	0.040	0.550	0.0071
OCT 7-87	OCT 6-87	1.74	0.06	0.255	0.110	0.320	0.950	0.0030
OCT 8-87	OCT 7-87	*****	0.06	*****	*****	*****	0.065	0.0083
OCT 9-87	OCT 8-87	0.46	0.27	0.005	0.035	0.070	0.155	0.0490
OCT 12-87	OCT 11-87	1.48	0.29	0.205	0.130	0.065	0.900	0.0186
OCT 13-87	OCT 12-87	0.48	0.13	0.060	<T	0.020	0.055	0.0708
OCT 14-87	OCT 13-87	0.36	0.09	0.040	<T	0.015	0.255	0.0513
OCT 16-87	OCT 15-87	*****	*****	*****	*****	*****	*****	*****
OCT 18-87	OCT 17-87	0.14	0.08	<T	0.010	<T	0.355	0.0537
OCT 19-87	OCT 18-87	0.12	0.05	<T	0.030	0.030	0.115	0.0229
OCT 20-87	OCT 19-87	0.72	0.50	0.080	0.040	0.110	2.700	0.2818
OCT 21-87	OCT 20-87	0.42	0.31	0.030	0.035	0.030	1.000	0.1995

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM										808	PAGE : 10	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE	
					01-RAIN	02-SNOW	02-NIPHER	02-APIOS	03-AES			
					03-COMP/04-OTHER							
OCT 22-87	OCT 21-87	800	800	100	115	2	0.2	45611	2	1	31	E
OCT 23-87	OCT 22-87	800	745	2000	2400	3	10.4	45613	2	1	107	N
OCT 24-87	OCT 23-87	745	815	*****	*****	1	*****	45615	2	1	*****	X
OCT 25-87	OCT 24-87	815	800	1300	600	3	22.0	45617	2	1	104	
OCT 27-87	OCT 26-87	730	800	500	800	1	5.0	45619	2	1	99	
OCT 28-87	OCT 27-87	800	800	800	1730	1	14.4	45621	2	1	93	
OCT 30-87	OCT 29-87	800	745	2000	2030	1	1.4	45623	2	1	82	
OCT 31-87	OCT 30-87	745	800	900	1210	1	2.0	45625	2	1	63	
NOV 3-87	NOV 2-87	800	800	200	800	1	4.2	45627	2	1	96	
NOV 4-87	NOV 3-87	800	810	800	1130	1	3.1	45629	2	1	66	J
NOV 5-87	NOV 4-87	830	730	1500	1715	1	4.1	45631	2	1	83	A
NOV 6-87	NOV 5-87	730	800	*****	*****	3	2.2	45633	2	1	90	H
NOV 7-87	NOV 6-87	800	800	800	900	2	1.7	45635	2	1	75	HM
NOV 9-87	NOV 8-87	730	800	1300	*****	2	6.0	45637	2	1	94	
NOV 12-87	NOV 11-87	735	815	330	430	2	0.2	45639	2	1	101	
NOV 18-87	NOV 17-87	805	740	1200	1900	1	8.4	45643	2	1	93	
NOV 19-87	NOV 18-87	740	800	930	1530	3	5.5	45645	2	1	89	
NOV 20-87	NOV 19-87	800	730	1500	2400	3	5.6	45647	2	1	95	
NOV 21-87	NOV 20-87	730	830	230	330	2	0.3	45649	2	1	10	N
NOV 22-87	NOV 21-87	830	830	*****	*****	2	*****	45651	2	1	*****	X
NOV 24-87	NOV 23-87	745	730	1115	2350	1	6.6	45653	2	1	114	X
NOV 25-87	NOV 24-87	730	730	*****	*****	1	0.2	45655	2	1	31	G
NOV 26-87	NOV 25-87	730	815	830	2000	2	19.6	45657	2	1	121	X
NOV 29-87	NOV 28-87	745	830	330	800	1	2.8	45659	2	1	78	N
NOV 30-87	NOV 29-87	830	805	845	1330	1	11.0	45661	2	1	66	
DEC 1-87	NOV 30-87	805	810	1400	1500	3	1.4	45663	2	1	7	XN
DEC 2-87	DEC 1-87	810	730	2230	415	2	0.4	45665	2	1	85	
DEC 3-87	DEC 2-87	730	830	1550	2030	2	1.4	45667	2	1	*****	
DEC 6-87	DEC 7-87	800	730	*****	*****	1	*****	45671	2	1	*****	
DEC 9-87	DEC 8-87	730	810	730	1600	1	5.5	45673	2	1	105	
DEC 10-87	DEC 9-87	810	810	810	1330	1	13.9	45675	2	1	87	
DEC 11-87	DEC 10-87	810	730	800	1000	1	2.2	45677	2	1	65	M
DEC 12-87	DEC 11-87	730	1030	*****	200	2	4.6	45679	2	1	92	
DEC 13-87	DEC 12-87	1030	810	1620	2130	2	1.9	45681	2	1	134	N
DEC 14-87	DEC 13-87	810	730	830	1200	3	4.5	45683	2	1	97	
DEC 15-87	DEC 14-87	730	730	800	1450	2	0.6	45685	2	1	72	
DEC 16-87	DEC 15-87	730	830	855	830	2	24.6	45687	2	1	38	
DEC 17-87	DEC 16-87	830	815	815	1400	2	1.0	45689	2	1	3	N
DEC 19-87	DEC 18-87	800	830	2200	130	2	7.2	45691	2	1	62	XN
DEC 20-87	DEC 19-87	830	745	830	1230	2	2.1	45693	2	1	58	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

808

PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH/3 MG/L	TOTAL H+ GRAM MG/L	SULPHATE AS N MG/L	NITRATE MG/L
OCT 22,87	OCT 21,87	4.0	*****	*****	*****	*****	*****	*****	*****
OCT 23,87	OCT 23,87	714.0	17.0	4.24	4.39	*****	0.0610	1.20	0.60
OCT 24,87	OCT 23,87	2.0	*****	*****	*****	*****	*****	*****	*****
OCT 25,87	OCT 24,87	1472.0	25.0	4.27	4.27	*****	0.0822	2.05	0.67
OCT 27,87	OCT 26,87	319.0	30.0	4.19	4.19	*****	0.0942	2.60	0.50
OCT 28,87	OCT 27,87	867.0	27.0	4.19	4.25	*****	0.0885	2.85	0.41
OCT 30,87	OCT 29,87	74.0	31.0	*****	4.27	*****	0.0858	1.60	1.26
OCT 31,87	OCT 30,87	62.0	68.0	*****	3.99	*****	0.1610	4.60	2.99
NOV 3,87	NOV 2,87	860.0	33.0	4.08	4.19	*****	0.1000	3.15	0.68
NOV 4,87	NOV 3,87	133.0	35.0	4.47	4.23	*****	0.0986	3.50	1.01
NOV 5,87	NOV 4,87	220.0	17.0	4.51	4.59	*****	0.0559	2.80	0.54
NOV 6,87	NOV 5,87	127.0	8.0	4.66	4.69	*****	0.0380	1.30	0.07
NOV 7,87	NOV 6,87	82.0	4.5	*****	5.12	*****	0.0247	0.75	0.20
NOV 9,87	NOV 8,87	364.0	32.0	4.12	4.15	*****	0.0978	2.30	1.04
NOV 12,87	NOV 11,87	13.0	7.0	*****	5.15	*****	0.0288	1.15	0.41
NOV 16,87	NOV 17,87	502.0	28.0	4.19	4.29	*****	0.0797	2.70	0.45
NOV 19,87	NOV 18,87	314.0	8.0	4.75	4.70	*****	0.0325	0.90	0.11
NOV 20,87	NOV 19,87	344.0	13.0	4.78	4.78	*****	0.0410	0.95	0.50
NOV 21,87	NOV 20,87	2.0	*****	*****	*****	*****	*****	*****	*****
NOV 22,87	NOV 21,87	2.0	*****	*****	*****	*****	*****	*****	*****
NOV 24,87	NOV 23,87	465.0	39.0	4.32	4.26	*****	0.0966	3.80	1.30
NOV 25,87	NOV 24,87	4.0	*****	*****	*****	*****	*****	*****	*****
NOV 26,87	NOV 25,87	394.0	5.0	5.07	4.90	*****	0.0247	<1	0.14
NOV 29,87	NOV 28,87	218.0	8.0	4.68	4.80	*****	0.0306	0.70	0.16
NOV 30,87	NOV 29,87	552.0	13.0	4.50	4.45	*****	0.0473	0.85	0.27
DEC 1,87	NOV 30,87	78.0	20.0	*****	4.30	*****	0.0582	1.00	0.63
DEC 2,87	DEC 1,87	2.0	*****	*****	*****	*****	*****	*****	*****
DEC 3,87	DEC 2,87	77.0	9.0	*****	4.60	*****	0.0312	0.65	0.15
DEC 8,87	DEC 7,87	10.0	6.0	*****	5.48	*****	0.0214	0.75	0.12
DEC 9,87	DEC 8,87	373.0	46.0	3.96	4.05	*****	0.1300	3.20	0.70
DEC 10,87	DEC 9,87	780.0	25.0	4.26	4.36	*****	0.0756	2.00	0.46
DEC 11,87	DEC 10,87	93.0	10.0	*****	4.74	*****	0.0378	0.80	0.25
DEC 12,87	DEC 11,87	274.0	42.0	4.06	4.11	*****	0.1150	2.00	1.14
DEC 13,87	DEC 12,87	164.0	16.0	4.57	4.64	*****	0.0476	0.95	0.60
DEC 14,87	DEC 13,87	280.0	7.0	4.81	4.92	*****	0.0303	0.85	0.14
DEC 15,87	DEC 14,87	28.0	21.0	*****	4.65	*****	0.0439	0.30	0.19
DEC 16,87	DEC 15,87	604.0	18.0	4.91	4.49	*****	0.0559	0.65	0.51
DEC 17,87	DEC 16,87	2.0	*****	*****	*****	*****	*****	*****	*****
DEC 19,87	DEC 18,87	109.0	40.0	4.12	4.17	*****	0.1050	1.90	1.20
DEC 20,87	DEC 19,87	269.0	10.5	4.60	4.56	*****	0.0402	0.45	0.35

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM				#08	PAGE : 12			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 22-87	OCT 21-87	*****	*****	*****	*****	*****	*****	*****
OCT 23-87	OCT 22-87	0.12	0.17	<T	<T	<T	0.155	0.0407
OCT 24-87	OCT 23-87	*****	*****	*****	*****	*****	*****	*****
OCT 25-87	OCT 24-87	<T	0.15	<T	<T	<T	0.285	0.0537
OCT 26-87	OCT 25-87	0.10	0.25	<T	0.015	0.010	0.285	0.0646
OCT 27-87	OCT 26-87	0.16	0.32	<T	0.035	0.040	0.045	0.0562
OCT 28-87	OCT 27-87	<T	0.17	<T	0.020	0.015	0.215	0.0537
OCT 29-87	OCT 28-87	0.04	0.32	0.070	0.060	0.060	0.285	0.0646
OCT 30-87	OCT 29-87	0.46	0.59	0.235	0.110	0.045	1.150	0.1023
OCT 31-87	OCT 30-87	1.72	0.06	<T	0.025	0.080	0.270	0.0646
NOV 3-87	OCT 31-87	0.16	0.25	0.035	0.060	0.035	0.710	0.0589
NOV 4-87	NOV 3-87	0.28	0.28	<T	0.015	0.005	0.635	0.0257
NOV 5-87	NOV 4-87	0.26	<T	<T	0.005	0.005	0.010	0.0204
NOV 6-87	NOV 5-87	<W	0.01	<T	0.020	0.005	<T	0.0076
NOV 7-87	NOV 6-87	<T	0.14	<T	0.030	0.025	0.445	0.0708
NOV 8-87	NOV 7-87	0.26	0.16	D	0.045	0.025	0.310	0.0071
NOV 9-87	NOV 8-87	*****	0.11	*****	*****	*****	0.205	0.0513
NOV 10-87	NOV 9-87	0.18	0.46	0.045	<T	0.015	0.110	0.0200
NOV 11-87	NOV 10-87	<T	0.04	<T	0.005	<T	0.260	0.0166
NOV 12-87	NOV 11-87	0.02	0.08	0.030	0.010	0.025	*****	*****
NOV 13-87	NOV 12-87	0.26	*****	*****	*****	*****	*****	*****
NOV 14-87	NOV 13-87	*****	*****	*****	*****	*****	*****	*****
NOV 15-87	NOV 14-87	0.72	0.36	0.075	0.050	0.205	1.000	0.0550
NOV 16-87	NOV 15-87	0.02	<T	<W	0.005	<T	*****	*****
NOV 17-87	NOV 16-87	<W	0.01	<W	0.005	<T	0.005	0.0126
NOV 18-87	NOV 17-87	0.14	0.14	<T	0.020	0.065	0.025	0.0158
NOV 19-87	NOV 18-87	0.04	<T	<W	0.005	0.010	<T	0.0355
NOV 20-87	NOV 19-87	<T	0.13	<T	0.015	0.040	0.065	0.0501
NOV 21-87	NOV 20-87	0.32	*****	*****	*****	*****	*****	*****
NOV 22-87	NOV 21-87	*****	0.03	<T	0.005	<T	0.005	0.0251
NOV 23-87	NOV 22-87	0.06	<T	*****	*****	*****	0.020	0.0033
NOV 24-87	NOV 23-87	0.14	0.48	0.025	<T	0.015	0.130	0.0891
NOV 25-87	NOV 24-87	0.10	0.10	<T	0.010	0.045	0.275	0.0437
NOV 26-87	NOV 25-87	0.16	0.20	<W	<T	0.050	0.045	0.0182
NOV 27-87	NOV 26-87	0.08	0.20	<T	0.015	0.070	0.255	0.0776
NOV 28-87	NOV 27-87	0.18	<T	<T	<T	0.035	0.290	0.0229
NOV 29-87	NOV 28-87	0.10	0.01	<W	0.005	0.040	0.115	0.0120
NOV 30-87	NOV 29-87	<T	0.01	<W	0.005	0.040	0.025	0.0244
DEC 1-87	NOV 30-87	0.08	2.50	0.005	0.005	0.215	0.050	0.0324
DEC 2-87	DEC 1-87	0.08	0.36	<W	0.005	0.005	*****	*****
DEC 3-87	DEC 2-87	0.06	0.60	0.060	<W	0.010	0.275	0.0676
DEC 4-87	DEC 3-87	0.14	0.01	0.005	<W	0.005	0.030	0.0275
DEC 5-87	DEC 4-87	0.10	0.10	<T	0.010	0.045	0.0891	0.0275
DEC 6-87	DEC 5-87	0.16	0.20	<W	<T	0.050	0.0437	0.0275
DEC 7-87	DEC 6-87	0.08	0.20	<T	0.015	0.070	0.255	0.0776
DEC 8-87	DEC 7-87	0.18	<T	<T	<T	0.035	0.290	0.0229
DEC 9-87	DEC 8-87	0.10	0.01	<W	0.005	0.040	0.115	0.0120
DEC 10-87	DEC 9-87	0.16	0.01	<W	0.005	0.040	0.025	0.0244
DEC 11-87	DEC 10-87	0.08	0.36	0.005	0.005	0.215	0.050	0.0324
DEC 12-87	DEC 11-87	0.10	0.60	0.060	<W	0.010	0.275	0.0676
DEC 13-87	DEC 12-87	0.18	0.01	0.005	<W	0.005	0.030	0.0275
DEC 14-87	DEC 13-87	0.10	0.01	<T	0.010	0.045	0.0891	0.0275
DEC 15-87	DEC 14-87	0.10	0.01	<W	0.005	0.040	0.025	0.0244
DEC 16-87	DEC 15-87	0.08	2.50	0.005	0.005	0.215	0.050	0.0324
DEC 17-87	DEC 16-87	0.08	0.36	<W	0.005	0.005	*****	*****
DEC 18-87	DEC 17-87	0.42	0.60	0.060	<W	0.010	0.275	0.0676
DEC 19-87	DEC 18-87	0.02	0.01	0.005	<W	0.005	0.030	0.0275
DEC 20-87	DEC 19-87	0.02	0.01	<W	<W	0.005	0.030	0.0275

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM										#08		PAGE : 13	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	02-APIOS 03-SPECIAL	SUBPROJECT CODE	01-HOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN 02-SNOW 03-COMP/04-OTHER		01-STD. 02-NIPHER							
DEC 21,87	DEC 20,87	745 730	800 2230	3	7.6	2	45695	2		1		80	
DEC 22,87	DEC 21,87	730 630	1500 1900	2	11.3	2	45697	2		1		78	M
DEC 23,87	DEC 22,87	630 730	1800 600	2	3.5	2	45699	2		1		44	N
DEC 24,87	DEC 23,87	730 730	900 1330	2	0.9	2	45901	2		1		86	
DEC 25,87	DEC 24,87	730 730	1200 1800	1	4.7	2	45903	2		1		61	
DEC 26,87	DEC 27,87	600 630	100 200	2	0.4	2	45905	2		1		113	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROHEM					#08	PAGE : 14			
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 21-87	DEC 20-87	390.0	20.0	4.35	4.43	*****	0.0646	1.75	0.39
DEC 22-87	DEC 21-87	569.0	9.0	4.81	4.88	*****	0.0338	0.70	0.44
DEC 23-87	DEC 22-87	100.0	31.0	4.22	4.24	*****	0.0849	1.00	1.07
DEC 24-87	DEC 23-87	50.0	30.0	*****	4.31	*****	0.0730	1.00	0.89
DEC 25-87	DEC 24-87	247.0	42.0	4.15	4.19	*****	0.0913	2.55	0.62
DEC 28-87	DEC 27-87	29.0	16.0	*****	4.52	*****	0.0526	1.40	0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM				#08					PAGE : 15			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L				
DEC 21,87	DEC 20,87	<T	0.06	0.10	<T	0.005	<T	0.020	0.040	0.120	0.0372	
DEC 22,87	DEC 21,87	0.16	0.17	<T	0.020	<T	0.010	0.035	0.245	0.0132	0.0575	
DEC 23,87	DEC 22,87	0.26	0.21	0.030	<T	0.010	0.060	0.255	0.245	0.215	0.0490	
DEC 24,87	DEC 23,87	!IS *****	1.08	!IS *****	!IS *****	!IS *****	!IS *****	0.215	0.215	0.240	0.0646	
DEC 25,87	DEC 24,87	0.20	2.70	<T	0.010	D	1.750	0.240	0.240	0.165	0.0302	
DEC 26,87	DEC 27,87	!IS *****	0.12	!IS *****	!IS *****	!IS *****	!IS *****	0.165	0.165	0.165	0.0302	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #807

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLE EFFICI- ENCY	COMMENTS FIELD OFFICE
				01-RAIN		01-NIPHER		02-APIOS	01-HOE		
				02-SNOW				03-SPECIAL	03-AES	(%)	
				03-COMP/04-OTHER							
JAN 7-87	JAN 6-87	830 830	500 630	3	0.8	1	41932	2	1	50	
JAN 9-87	JAN 8-87	830 830	500 830	2	1.2	2	41933	2	1	124	N
JAN 10-87	JAN 9-87	830 830	830 1030	3	3.0	2	41934	2	1	82	HCM
JAN 11-87	JAN 10-87	830 830	830 930	2	****	2	41935	2	1	****	N
JAN 16-87	JAN 15-87	800 900	****	3	0.2	2	41936	2	1	124	HCM
JAN 18-87	JAN 17-87	845 900	600 900	2	5.4	2	41937	2	1	95	N
JAN 19-87	JAN 18-87	900 900	900 1100	2	0.8	2	41938	2	1	142	N
JAN 21-87	JAN 20-87	900 815	400 815	2	2.4	2	41939	2	1	79	
JAN 22-87	JAN 21-87	830 815	830 1100	2	1.2	2	41940	2	1	67	
JAN 23-87	JAN 22-87	830 900	300 430	2	4.2	2	41941	2	1	64	
JAN 29-87	JAN 28-87	815 900	1600 1700	2	0.4	2	41944	2	1	50	
JAN 31-87	JAN 30-87	800 900	830 1030	2	6.6	2	41945	2	1	28	G
FEB 2-87	FEB 1-87	900 900	400 500	2	3.2	2	41946	2	1	74	
FEB 3-87	FEB 2-87	900 900	500 600	3	1.6	2	41947	2	1	67	HM
FEB 4-87	FEB 3-87	900 815	400 500	2	****	2	41948	2	1	89	H
FEB 6-87	FEB 5-87	830 830	****	2	4.0	2	41949	2	1	55	HCM
FEB 7-87	FEB 6-87	830 830	****	3	1.4	2	41950	2	1	61	Y2
FEB 9-87	FEB 7-87	900 900	900 1300	2	19.0	2	41951	2	1	61	
FEB 10-87	FEB 9-87	900 830	400 500	2	****	2	41952	2	1	****	E
FEB 13-87	FEB 12-87	815 900	500 600	2	0.6	2	41953	2	1	148	NHCH
MAR 2-87	FEB 28-87	800 900	300 800	3	26.8	2	41957	2	1	66	Y2
MAR 26-87	MAR 25-87	800 830	1300 1500	1	5.6	2	41962	2	1	120	N
MAR 27-87	MAR 26-87	830 730	830 930	1	0.6	2	41963	2	1	122	N
MAR 30-87	MAR 29-87	845 745	550 745	1	12.2	2	41964	2	1	96	
MAR 31-87	MAR 30-87	745 800	500 800	3	20.4	2	41965	2	1	66	CZ
APR 1-87	MAR 31-87	800 745	800 1200	2	8.8	2	41966	2	1	53	
APR 2-87	APR 1-87	745 730	400 600	2	6.6	2	41967	2	1	43	N
APR 3-87	APR 2-87	730 800	300 430	2	2.2	2	41968	2	1	39	N
APR 5-87	APR 4-87	745 800	500 800	1	3.6	2	41969	2	1	129	N
APR 5-87	APR 5-87	800 830	800 900	1	****	2	41970	2	1	****	HCM
APR 13-87	APR 12-87	800 1000	1800 2000	1	4.2	2	41971	2	1	116	
APR 22-87	APR 21-87	800 900	1500 1800	1	1.2	1	41972	2	1	96	A
APR 24-87	APR 23-87	730 730	400 600	1	1.4	1	41973	2	1	65	C
APR 28-87	APR 27-87	800 720	1500 1800	1	11.0	1	41974	2	1	99	
APR 29-87	APR 28-87	720 1100	1300 1300	3	2.2	1	41975	2	1	71	HM
APR 30-87	APR 29-87	730 745	1800 1900	1	3.4	1	41976	2	1	86	J
MAY 11-87	MAY 10-87	800 730	500 700	1	2.6	1	41978	2	1	87	JH
MAY 12-87	MAY 11-87	730 730	2200 2300	1	6.4	1	41979	2	1	95	
MAY 15-87	MAY 14-87	730 725	1500 1630	1	18.2	1	41982	2	1	103	
MAY 17-87	MAY 16-87	730 830	1830 2000	1	3.0	1	41983	2	1	92	JHC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM				807		PAGE : 2			
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UNH0/CM	PH FIELD	PH LAB	TOTAL H+ TO PH6.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 7,87	JAN 6,87	26.0	74.0	*****	3.90	*****	0.1490	5.95	1.96
JAN 9,87	JAN 8,87	96.0	25.6	4.46	4.46	*****	0.0573	3.40	0.38
JAN 10,87	JAN 9,87	158.0	17.8	4.51	4.51	*****	0.0484	0.50	0.60
JAN 11,87	JAN 10,87	8.0	3.9	*****	5.88	*****	0.0189	0.15	0.09
JAN 16,87	JAN 15,87	16.0	50.1	*****	4.11	*****	0.1070	3.05	1.40
JAN 18,87	JAN 17,87	330.0	12.2	4.71	4.77	*****	0.0376	0.25	0.49
JAN 19,87	JAN 18,87	73.0	12.3	*****	6.72	*****	0.0167	0.25	0.24
JAN 21,87	JAN 20,87	122.0	12.0	B	6.10	*****	0.0194	0.80	0.63
JAN 22,87	JAN 21,87	152.0	7.7	*****	5.97	*****	0.0187	0.70	0.30
JAN 23,87	JAN 22,87	173.0	36.0	4.09	4.14	*****	0.0936	0.30	1.20
JAN 29,87	JAN 28,87	13.0	21.6	*****	4.41	*****	0.0579	0.90	0.55
JAN 30,87	JAN 29,87	158.0	20.7	4.39	4.42	*****	0.0603	0.80	0.56
FEB 5,87	FEB 4,87	152.0	41.3	4.25	4.32	*****	0.0784	2.75	1.49
FEB 6,87	FEB 5,87	69.0	18.3	*****	4.52	*****	0.0480	1.20	0.53
FEB 7,87	FEB 6,87	230.0	10.3	4.77	4.81	*****	0.0307	0.45	0.37
FEB 8,87	FEB 7,87	50.0	17.7	*****	6.29	*****	0.0244	2.50	0.85
FEB 9,87	FEB 8,87	750.0	18.6	4.41	4.39	*****	0.0583	0.75	0.76
FEB 10,87	FEB 9,87	2.0	*****	*****	*****	*****	*****	*****	*****
FEB 13,87	FEB 12,87	57.0	5.0	4.57	4.05	*****	0.1070	0.95	1.48
MAR 2,87	FEB 28,87	1147.0	12.1	4.57	4.64	*****	0.0433	0.85	0.22
MAR 26,87	MAR 25,87	433.0	33.0	4.10	4.27	*****	0.0901	2.40	0.64
MAR 27,87	MAR 26,87	47.0	36.0	*****	4.27	*****	0.0912	2.70	0.65
MAR 30,87	MAR 29,87	754.0	39.0	4.05	4.19	*****	0.1040	3.40	0.61
MAR 31,87	MAR 30,87	867.0	11.0	4.58	4.61	*****	0.0358	0.95	0.12
APR 1,87	MAR 31,87	301.0	12.0	4.83	4.68	*****	0.0257	0.40	0.14
APR 2,87	APR 1,87	182.0	23.0	4.23	4.41	*****	0.0658	0.45	0.65
APR 3,87	APR 2,87	56.0	40.5	*****	4.24	*****	0.0980	3.20	0.89
APR 5,87	APR 4,87	298.0	7.2	4.72	4.68	*****	0.0265	0.60	0.08
APR 6,87	APR 5,87	7.0	3.5	4.72	4.68	*****	0.0213	0.25	<M
APR 13,87	APR 12,87	314.0	49.0	3.86	3.98	*****	0.1500	5.55	1.11
APR 22,87	APR 21,87	79.0	33.0	*****	3.73	*****	0.0233	8.15	1.19
APR 24,87	APR 23,87	54.0	> 100.0	*****	3.43	*****	0.0450	18.00	3.15
APR 28,87	APR 27,87	705.0	12.0	4.56	4.82	*****	0.0392	1.20	0.33
APR 29,87	APR 28,87	101.0	5.0	4.78	5.12	*****	0.0252	0.50	0.07
APR 30,87	APR 29,87	189.0	46.0	6.68	7.41	*****	0.0178	7.05	1.47
MAY 11,87	MAY 10,87	146.0	36.5	4.30	7.03	*****	0.0360	6.65	1.23
MAY 12,87	MAY 11,87	390.0	36.0	4.14	4.51	*****	0.0548	5.30	0.88
MAY 15,87	MAY 14,87	1208.0	39.1	4.07	4.20	*****	0.0826	4.65	0.66
MAY 17,87	MAY 16,87	178.0	10.2	4.67	5.50	*****	0.0184	1.30	0.23

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

#07

PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 7,87	JAN 6,87	IIS *****	0.61	IIS *****	IIS *****	IIS *****	IIS *****	0.1259
JAN 9,87	JAN 8,87	0.18	0.11	<T	0.020	0.090	0.765	0.0347
JAN 10,87	JAN 9,87	<T	0.04	<T	0.005	0.030	0.300	0.0288
JAN 11,87	JAN 10,87	<T	0.04	<T	0.005	0.025	0.180	0.0013
JAN 16,87	JAN 15,87	0.14	0.29	0.015	0.135	0.040	1.150	0.0776
JAN 19,87	JAN 17,87	<T	0.08	<T	0.005	0.020	0.260	0.0170
JAN 19,87	JAN 18,87	<T	0.06	<T	0.010	0.035	0.630	0.0002
JAN 21,87	JAN 20,87	<T	0.10	<T	0.020	0.040	1.100	0.0003
JAN 22,87	JAN 21,87	0.14	0.17	0.025	0.050	0.095	0.420	0.0011
JAN 23,87	JAN 22,87	<T	0.06	<T	0.005	0.020	0.195	0.0724
JAN 29,87	JAN 28,87	<T	0.08	<T	0.005	0.095	0.180	0.0389
JAN 31,87	JAN 30,87	<T	0.06	<T	0.005	0.025	0.230	0.0380
FEB 2,87	FEB 1,87	0.46	0.34	0.055	0.045	0.150	1.300	0.0679
FEB 3,87	FEB 2,87	<T	0.08	<T	0.010	0.040	0.105	0.0302
FEB 4,87	FEB 3,87	*****	*****	*****	*****	*****	*****	*****
FEB 7,87	FEB 5,87	<T	0.20	<T	0.015	0.020	0.120	0.0155
FEB 7,87	FEB 6,87	0.20	0.21	0.025	0.050	0.120	0.395	0.0005
FEB 9,87	FEB 7,87	0.16	0.17	<T	0.020	0.010	0.385	0.0007
FEB 10,87	FEB 9,87	*****	*****	*****	*****	*****	*****	*****
FEB 13,87	FEB 12,87	0.22	0.51	0.025	<T	0.020	1.600	0.0891
MAR 2,87	FEB 28,87	<T	0.02	<T	0.005	0.030	0.180	0.0229
MAR 25,87	MAR 23,87	0.14	<T	<T	0.020	0.045	0.260	0.0537
MAR 26,87	MAR 25,87	0.16	<T	0.010	0.075	0.085	0.450	0.0646
MAR 30,87	MAR 29,87	0.10	<T	<T	0.025	0.040	0.350	0.0245
MAR 31,87	MAR 30,87	<T	0.02	<T	0.005	0.010	0.050	0.0132
APR 3,87	MAR 31,87	<T	0.14	<T	0.005	0.025	0.035	0.0389
APR 3,87	APR 2,87	0.14	IIR *****	<T	0.010	0.020	0.120	0.0575
APR 5,87	APR 4,87	0.12	IIR *****	<T	0.010	0.025	0.740	0.0132
APR 5,87	APR 4,87	0.02	<T	0.005	<T	0.050	0.025	0.0044
APR 6,87	APR 5,87	<T	0.02	<T	0.005	0.045	0.070	0.0002
APR 12,87	APR 12,87	0.44	0.23	0.065	0.050	0.035	0.780	0.1047
APR 15,87	APR 14,87	1.92	0.34	0.285	0.320	0.175	2.550	0.3715
APR 20,87	APR 19,87	1.06	0.74	0.140	0.170	0.140	1.450	0.0151
APR 20,87	APR 19,87	0.26	0.26	0.030	0.040	0.030	0.200	0.0076
APR 29,87	APR 28,87	<T	0.08	<T	0.010	0.050	0.020	0.0000
APR 30,87	APR 29,87	3.60	0.46	0.725	0.260	0.275	2.500	0.0001
MAY 11,87	MAY 10,87	1.54	0.39	0.260	0.220	0.440	1.730	0.0309
MAY 12,87	MAY 11,87	1.08	0.23	0.175	0.085	0.090	1.120	0.0631
MAY 15,87	MAY 14,87	0.52	0.14	0.075	0.030	0.010	0.705	0.0631
MAY 15,87	MAY 14,87	0.26	0.06	0.050	0.155	0.040	0.350	0.0350

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITTHORVE/DAILY/AEROCHEM

#07

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY	COMMENTS FIELD OFFICE
				01-RAIN 02-SNOW 03-COMP/04-OTHER				02-APIOS 03-SPECIAL	01-MOE 03-AES	(%)	
MAY 19,87	MAY 17,87	830 830	1000 1100	1	0-6	1	41984	2	1	46	NZ
MAY 20,87	MAY 19,87	830 730	1900 2000	1	MMH	1	41985	2	1	MMH	E
MAY 22,87	MAY 21,87	700 730	1400 1600	1	17.2	1	41986	2	1	98	
MAY 23,87	MAY 22,87	730 830	700 830	1	0-8	1	41988	2	1	MMH	E N
MAY 24,87	MAY 23,87	830 900	830 1000	1	2-6	1	41987	2	1	55	
MAY 27,87	MAY 26,87	700 715	1600 1900	1	11.2	1	41989	2	1	94	T
JUN 1,87	MAY 31,87	815 830	930 1300	1	10.2	1	41990	2	1	96	
JUN 2,87	JUN 1,87	830 730	2100 2200	1	0-8	1	41991	2	1	35	NH
JUN 3,87	JUN 2,87	730 730	2200 2300	1	1-6	1	41992	2	1	81	TM
JUN 4,87	JUN 3,87	730 900	MMH MMH	1	2-4	1	41993	2	1	16	Q
JUN 8,87	JUN 7,87	800 745	900 1000	1	16.2	1	41994	2	1	95	
JUN 9,87	JUN 8,87	745 730	745 830	1	16.2	1	41997	2	1	3	NC
JUN 10,87	JUN 9,87	730 715	1000 1130	1	8.8	1	41998	2	1	92	C
JUN 12,87	JUN 11,87	730 745	1600 1900	1	7-4	1	41999	2	1	94	
JUN 13,87	JUN 12,87	730 745	400 500	1	2-6	1	49500	2	1	84	
JUN 23,87	JUN 22,87	730 730	1600 1630	1	0.1	1	49501	2	1	62	E
JUN 26,87	JUN 25,87	730 730	500 730	1	3-8	1	49502	2	1	96	
JUN 27,87	JUN 26,87	730 800	730 930	1	1-0	1	49503	2	1	60	
JUN 28,87	JUN 27,87	800 800	400 500	1	14.4	1	49504	2	1	104	C
JUN 29,87	JUN 28,87	800 800	500 500	1	4-0	1	49507	2	1	99	
JUN 30,87	JUN 29,87	800 745	800 1000	1	9-8	1	49508	2	1	95	
JUL 4,87	JUL 3,87	745 900	1500 1600	1	6-2	1	49509	2	1	97	
JUL 10,87	JUL 9,87	740 730	1600 1610	1	0-4	1	49510	2	1	MMH	E
JUL 13,87	JUL 12,87	900 720	400 500	1	2-6	1	49511	2	1	79	N
JUL 14,87	JUL 13,87	720 740	500 740	1	21.8	1	49512	2	1	100	J
JUL 15,87	JUL 14,87	740 740	740 900	1	4-4	1	49515	2	1	83	JICH
JUL 20,87	JUL 18,87	745 745	400 600	1	6-4	1	49516	2	1	101	Y2
JUL 27,87	JUL 26,87	900 730	400 500	1	2-8	1	49517	2	1	114	
AUG 3,87	AUG 2,87	800 800	900 1200	1	5-4	1	49519	2	1	100	
AUG 5,87	AUG 4,87	730 730	1000 1100	1	7-6	1	49520	2	1	94	
AUG 8,87	AUG 7,87	730 900	1100 1200	1	2-4	1	49521	2	1	94	
AUG 10,87	AUG 9,87	900 900	1100 1600	1	4-2	1	49522	2	1	88	C
AUG 14,87	AUG 13,87	730 745	430 530	1	5-0	1	49524	2	1	102	
AUG 15,87	AUG 14,87	745 800	400 500	1	24-6	1	49525	2	1	96	
AUG 17,87	AUG 16,87	800 700	400 500	1	1-6	1	49528	2	1	84	N
AUG 18,87	AUG 17,87	730 740	1400 1500	1	0-6	1	49529	2	1	41	
AUG 19,87	AUG 18,87	740 730	400 500	1	2-0	1	49530	2	1	85	
AUG 20,87	AUG 19,87	730 730	400 500	1	1-0	1	49531	2	1	MMH	GE
AUG 22,87	AUG 21,87	730 800	600 700	1	14-8	1	49532	2	1	98	
AUG 24,87	AUG 23,87	800 730	1000 1100	1	1-0	1	49533	2	1	63	HCN

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM 807

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 19,87	MAY 17,87	18.0	23.7	*****	ICR *****	*****	ICR *****	3.95	0.75
MAY 20,87	MAY 19,87	1.0	*****	*****	*****	*****	*****	*****	*****
MAY 22,87	MAY 21,87	1086.0	91.0	3.82	3.72	*****	0.2250	8.80	1.20
MAY 23,87	MAY 22,87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 24,87	MAY 23,87	92.0	15.0	*****	4.60	*****	0.0464	1.20	0.95
MAY 26,87	MAY 26,87	680.0	87.6	3.67	3.61	*****	0.2360	9.35	1.03
JUN 1,87	MAY 31,87	632.0	26.7	4.23	4.19	*****	0.0765	2.55	0.83
JUN 2,87	JUN 1,87	18.0	19.8	*****	4.26	*****	0.0586	1.00	0.48
JUN 3,87	JUN 2,87	84.0	70.0	*****	3.72	*****	0.1820	7.15	1.16
JUN 4,87	JUN 3,87	25.0	28.3	*****	4.17	*****	0.0775	2.95	0.45
JUN 8,87	JUN 7,87	993.0	27.2	4.20	4.27	*****	0.0633	2.85	0.70
JUN 9,87	JUN 8,87	39.0	9.1	*****	5.43	*****	0.0257	0.90	0.25
JUN 10,87	JUN 9,87	520.0	8.0	4.68	4.97	*****	0.0268	0.80	0.03
JUN 12,87	JUN 11,87	449.0	63.0	3.80	3.82	*****	0.1660	6.50	0.93
JUN 13,87	JUN 12,87	141.0	90.9	3.71	3.75	*****	0.2210	10.00	1.35
JUN 15,87	JUN 14,87	4.0	*****	*****	*****	*****	*****	*****	*****
JUN 16,87	JUN 15,87	235.0	63.9	3.83	3.85	*****	0.1750	5.60	1.00
JUN 17,87	JUN 16,87	39.0	36.3	*****	4.19	*****	0.0927	4.50	0.40
JUN 18,87	JUN 17,87	966.0	12.8	4.88	5.10	*****	0.0277	0.85	0.15
JUN 19,87	JUN 18,87	256.0	12.8	4.60	4.71	*****	0.0406	1.10	0.15
JUN 20,87	JUN 19,87	598.0	28.6	4.17	4.27	*****	0.0773	2.65	0.40
JUN 21,87	JUN 20,87	588.0	53.1	3.93	4.01	*****	0.1330	5.80	0.95
JUL 4,87	JUL 3,87	*****	*****	*****	*****	*****	*****	*****	*****
JUL 10,87	JUL 9,87	132.0	30.8	4.10	4.39	*****	0.0711	3.70	0.75
JUL 11,87	JUL 10,87	1405.0	5.6	4.73	5.22	*****	0.0227	0.55	0.75
JUL 12,87	JUL 11,87	435.0	4.5	4.86	5.49	*****	0.0211	0.30	0.10
JUL 13,87	JUL 12,87	216.0	21.8	4.26	4.46	*****	0.0620	2.35	0.40
JUL 14,87	JUL 13,87	349.0	21.2	4.37	4.36	*****	0.0600	2.30	0.35
JUL 15,87	JUL 14,87	349.0	49.8	*****	3.90	*****	0.1370	4.60	0.78
AUG 3,87	AUG 2,87	460.0	15.0	4.50	4.48	*****	0.0494	1.50	0.15
AUG 5,87	AUG 4,87	1495.0	10.3	3.92	3.90	*****	0.1430	5.10	1.35
AUG 8,87	AUG 7,87	327.0	100.0	4.45	4.62	*****	0.0382	0.75	0.10
AUG 10,87	AUG 9,87	327.0	42.0	3.46	3.51	*****	0.3960	10.40	2.35
AUG 14,87	AUG 13,87	1522.0	58.5	3.78	3.86	*****	0.1820	5.45	0.86
AUG 15,87	AUG 14,87	87.0	42.0	*****	4.12	*****	0.1210	5.80	0.70
AUG 16,87	AUG 15,87	16.0	37.5	*****	4.11	*****	0.1170	4.05	0.63
AUG 18,87	AUG 17,87	109.0	11.0	4.50	4.70	*****	0.0424	0.95	0.23
AUG 19,87	AUG 18,87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 20,87	AUG 19,87	936.0	17.0	4.33	4.51	*****	0.0555	1.80	0.32
AUG 22,87	AUG 21,87	41.0	4.0	*****	5.69	*****	0.0184	0.45	0.08

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITINGROVE/DAILY/AEROCHEM #07										PAGE : 6	
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE LAB H+ MG/L			
MAY 19,87	MAY 17,87	1.10	0.20	0.180	0.075	0.305	0.825	ICR	*****		
MAY 20,87	MAY 19,87	*****	*****	0.035	*****	*****	*****	*****	0.940	0.1905	
MAY 22,87	MAY 21,87	0.24	0.25	*****	0.050	0.030	*****	*****	*****		
MAY 23,87	MAY 22,87	*****	*****	*****	*****	*****	*****	*****	*****	0.0251	
MAY 24,87	MAY 23,87	<T	<T	<T	0.035	0.015	0.140	0.0251	0.140	0.0251	
MAY 27,87	MAY 26,87	0.16	0.22	<T	0.035	0.030	0.900	0.2455	0.900	0.0646	
JUN 1,87	MAY 31,87	0.10	0.10	<T	0.055	0.045	0.375	0.055	0.055	0.0646	
JUN 2,87	JUN 1,87	0.14	0.14	<T	0.015	0.060	0.060	0.0550	0.060	0.0646	
JUN 3,87	JUN 2,87	0.40	0.31	0.070	0.285	0.090	0.900	0.0550	0.900	0.0646	
JUN 4,87	JUN 3,87	0.16	0.11	<T	0.040	0.045	0.470	0.0676	0.470	0.0676	
JUN 8,87	JUN 7,87	0.38	0.14	0.065	0.060	0.020	0.685	0.0537	0.685	0.0537	
JUN 9,87	JUN 8,87	0.20	0.16	0.030	0.140	0.080	0.240	0.0037	0.240	0.0037	
JUN 10,87	JUN 9,87	0.08	0.06	0.005	0.015	0.020	0.010	0.0107	0.010	0.0107	
JUN 12,87	JUN 11,87	0.42	0.25	0.075	0.070	0.050	0.530	0.1514	0.530	0.1514	
JUN 19,87	JUN 18,87	1.14	0.35	0.220	0.070	0.055	0.900	0.1778	0.900	0.1778	
JUN 23,87	JUN 22,87	*****	*****	*****	*****	*****	*****	*****	*****		
JUN 25,87	JUN 25,87	0.28	0.25	0.050	0.040	0.035	0.305	0.1613	0.305	0.1613	
JUN 27,87	JUN 26,87	ITS	ITS	ITS	ITS	ITS	0.575	0.0646	0.575	0.0646	
JUN 28,87	JUN 27,87	0.14	0.01	<T	0.010	<T	0.220	0.0079	0.220	0.0079	
JUN 29,87	JUN 28,87	0.12	<T	<T	0.015	<T	0.160	0.0195	0.160	0.0195	
JUN 30,87	JUN 29,87	0.18	<T	0.025	0.005	<T	0.345	0.0537	0.345	0.0537	
JUL 4,87	JUL 3,87	0.28	0.10	0.045	0.050	0.025	1.050	0.0977	1.050	0.0977	
JUL 10,87	JUL 9,87	*****	*****	*****	*****	*****	*****	*****	*****		
JUL 13,87	JUL 12,87	0.72	0.25	0.090	0.100	0.140	0.600	0.0407	0.600	0.0407	
JUL 14,87	JUL 13,87	0.04	0.05	<T	0.035	0.020	0.095	0.0060	0.095	0.0060	
JUL 15,87	JUL 14,87	<T	0.10	<T	0.075	0.060	0.055	0.0032	0.055	0.0032	
JUL 20,87	JUL 18,87	0.38	0.15	0.055	0.060	0.035	0.230	0.0347	0.230	0.0347	
JUL 27,87	JUL 26,87	0.22	0.10	0.035	0.050	0.030	0.325	0.0437	0.325	0.0437	
AUG 3,87	AUG 2,87	0.20	0.10	<T	0.030	<T	0.370	0.1259	0.370	0.1259	
AUG 5,87	AUG 4,87	0.06	0.05	<T	0.035	<T	0.105	0.0331	0.105	0.0331	
AUG 8,87	AUG 7,87	0.92	0.30	0.145	0.065	0.035	0.515	0.1259	0.515	0.1259	
AUG 10,87	AUG 9,87	<T	0.05	<T	0.020	0.010	0.005	0.0240	0.005	0.0240	
AUG 14,87	AUG 13,87	1.10	0.76	0.195	0.050	0.040	0.485	0.0390	0.485	0.0390	
AUG 15,87	AUG 14,87	0.28	0.21	0.045	0.030	0.025	0.160	0.1360	0.160	0.1360	
AUG 17,87	AUG 16,87	0.58	0.36	0.130	0.090	0.270	0.585	0.0759	0.585	0.0759	
AUG 18,87	AUG 17,87	0.26	0.28	0.045	0.065	0.085	0.420	0.0776	0.420	0.0776	
AUG 19,87	AUG 18,87	0.12	0.08	<T	0.040	0.025	0.055	0.0200	0.055	0.0200	
AUG 20,87	AUG 19,87	*****	*****	*****	*****	*****	*****	*****	*****		
AUG 22,87	AUG 21,87	0.22	<T	0.035	<T	0.015	0.260	0.0309	0.260	0.0309	
AUG 24,87	AUG 23,87	0.10	0.01	<T	0.025	0.035	0.030	0.0020	0.035	0.0020	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

#07

PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. / HR.	PRECIP START/END HR. / HR.	SAMPLE TYPE	GAUGE DEPTH(HH)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-STD.		02-APIOS	01-HOE		
				02-SNOW		02-NIPHER		03-SPECIAL	03-AES		
				03-COMP/04-OTHER							
AUG 29,87	AUG 28,87	730 800	400 500	1	1.4	1	49535	2	1	81	
AUG 30,87	AUG 29,87	800 800	400 500	1	1.4	1	49536	2	1	81	E
AUG 31,87	AUG 30,87	800 740	400 500	1	27.2	1	49537	2	1	100	
SEP 1,87	AUG 31,87	740 740	600 700	1	1.2	1	49540	2	1	52	HM
SEP 2,87	SEP 1,87	740 740	400 500	1	1.4	1	49541	2	1	73	HM
SEP 8,87	SEP 7,87	800 700	500 600	1	1.4	1	49542	2	1	73	C
SEP 9,87	SEP 8,87	700 730	1800 1900	1	0.8	1	49543	2	1	46	NHM
SEP 20,87	SEP 19,87	900 900	900 1200	1	11.0	1	49545	2	1	79	
SEP 21,87	SEP 20,87	900 700	1200 1400	1	10.0	1	49546	2	1	88	
SEP 22,87	SEP 21,87	700 710	1300 1400	1	1.0	1	49547	2	1	74	
SEP 24,87	SEP 23,87	745 745	2030 100	1	4.2	1	49548	2	1	90	
SEP 28,87	SEP 27,87	830 720	1800 1900	1	4.8	1	49549	2	1	101	
SEP 29,87	SEP 28,87	720 700	500 530	1	0.8	1	49550	2	1	70	
SEP 30,87	SEP 29,87	700 720	1300 1800	1	6.0	1	49551	2	1	104	
OCT 1,87	SEP 30,87	720 720	1700 1830	1	2.0	1	49552	2	1	77	
OCT 2,87	OCT 1,87	720 725	1900 2100	1	10.2	1	49553	2	1	108	C
OCT 3,87	OCT 2,87	745 830	1500 1600	1	3.0	1	49554	2	1	85	
OCT 6,87	OCT 5,87	720 730	400 500	1	2.2	1	49555	2	1	97	
OCT 7,87	OCT 6,87	730 730	1730 1830	1	4.4	1	49556	2	1	95	C
OCT 8,87	OCT 7,87	720 745	1830 1930	1	1.4	1	49557	2	1	98	
OCT 10,87	OCT 9,87	715 800	615 930	3	3.8	1	49558	2	1	98	
OCT 12,87	OCT 11,87	800 800	630 800	3	1.0	1	49559	2	1	68	G
OCT 13,87	OCT 12,87	800 730	800 1100	3	3.2	1	49560	2	1	97	
OCT 19,87	OCT 17,87	800 745	500 600	1	21.6	1	49561	2	1	65	Y2
OCT 20,87	OCT 19,87	745 745	500 600	1	1.0	1	49564	2	1	117	
OCT 21,87	OCT 20,87	745 730	900 1200	3	4.2	1	49565	2	1	185	NH
OCT 23,87	OCT 22,87	730 800	300 500	3	6.8	1	49566	2	1	92	
OCT 25,87	OCT 24,87	730 800	1400 1700	3	22.6	1	49567	2	1	99	
OCT 28,87	OCT 27,87	800 730	500 1200	1	22.4	1	49568	2	1	229	N
OCT 31,87	OCT 30,87	715 800	900 1100	1	1.0	1	49569	2	1	125	N
NOV 3,87	NOV 2,87	730 700	500 700	1	2.6	2	49570	2	1	132	N
NOV 4,87	NOV 3,87	730 730	700 1100	1	2.6	2	49571	2	1	176	N
NOV 5,87	NOV 4,87	730 745	1000 1200	1	3.0	2	49572	2	1	115	N
NOV 9,87	NOV 5,87	745 745	1500 1700	3	1.0	2	49573	2	1	97	Y2
NOV 9,87	NOV 6,87	745 800	500 700	2	1.0	2	49574	2	1	311	N
NOV 9,87	NOV 7,87	800 800	900 1200	1	7.0	2	49575	2	1	130	N
NOV 12,87	NOV 11,87	715 730	400 500	3	0.1	2	49576	2	1	120	N
NOV 16,87	NOV 17,87	735 730	1700 1830	1	5.4	2	49578	2	1	105	
NOV 19,87	NOV 18,87	730 745	1000 1300	1	4.4	2	49579	2	1		
NOV 20,87	NOV 19,87	745 750	200 400	3	4.1	2	49580	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHROGROVE/DAILY/AEROCHEM				#07	PAGE : 8				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PHG.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 29.87	AUG 28.87	73.0	45.5	*****	4.00	*****	0.1440	5.65	0.24
AUG 30.87	AUG 29.87	3.0	*****	*****	*****	*****	*****	*****	*****
AUG 31.87	AUG 30.87	1745.0	13.0	4.77	4.72	*****	0.0425	1.45	0.16
SEP 1.87	SEP 31.87	40.0	5.0	*****	5.27	*****	0.0231	0.55	0.09
SEP 2.87	SEP 1.87	22.0	5.0	*****	5.67	*****	0.0184	0.65	0.08
SEP 8.87	SEP 7.87	66.0	>	*****	3.49	*****	0.3870	17.15	2.33
SEP 9.87	SEP 8.87	24.0	100.0	*****	4.42	*****	0.0645	2.45	0.21
SEP 20.87	SEP 19.87	564.0	20.5	4.26	4.39	*****	0.0680	1.55	0.29
SEP 21.87	SEP 20.87	565.0	32.0	4.11	4.16	*****	0.0947	2.75	0.36
SEP 22.87	SEP 21.87	46.0	17.0	*****	4.52	*****	0.0530	1.55	0.27
SEP 24.87	SEP 23.87	245.0	14.8	4.45	4.58	*****	0.0532	1.85	0.12
SEP 26.87	SEP 25.87	313.0	16.0	4.51	4.69	*****	0.0402	1.40	0.27
SEP 29.87	SEP 28.87	36.0	>	*****	3.63	*****	>	10.00	>
SEP 30.87	SEP 29.87	537.0	100.0	D	3.96	*****	0.1250	5.10	0.55
OCT 1.87	SEP 30.87	99.0	9.4	4.36	4.43	*****	0.0588	2.05	0.11
OCT 2.87	OCT 1.87	709.0	17.3	4.68	5.24	*****	0.0252	2.45	0.60
OCT 3.87	OCT 2.87	164.0	8.9	5.98	6.37	*****	0.0187	1.90	0.24
OCT 6.87	OCT 5.87	137.0	39.1	4.10	4.17	*****	0.0955	3.35	1.00
OCT 7.87	OCT 6.87	269.0	53.4	5.99	6.76	*****	0.0227	10.95	2.18
OCT 8.87	OCT 7.87	13.0	7.0	U	5.01	*****	0.0293	0.65	0.24
OCT 10.87	OCT 9.87	239.0	36.0	4.41	4.50	*****	0.0638	4.05	1.31
OCT 12.87	OCT 11.87	140.0	*****	*****	*****	*****	*****	*****	*****
OCT 13.87	OCT 12.87	1359.0	31.0	4.24	4.30	*****	0.0734	2.60	0.68
OCT 19.87	OCT 17.87	42.0	25.0	4.29	4.33	*****	0.0654	2.55	0.40
OCT 20.87	OCT 19.87	82.0	100.0	*****	3.57	*****	0.3070	15.30	2.50
OCT 21.87	OCT 20.87	317.0	79.0	3.71	3.79	*****	0.2160	6.75	1.69
OCT 23.87	OCT 22.87	607.0	16.0	4.36	4.42	*****	0.0596	1.60	0.59
OCT 25.87	OCT 24.87	1347.0	25.0	4.20	4.28	*****	0.0792	1.95	0.71
OCT 28.87	OCT 27.87	1433.0	25.0	4.18	4.24	*****	0.0823	2.55	0.37
OCT 31.87	OCT 30.87	147.0	71.0	3.88	3.87	*****	0.1730	4.65	3.05
NOV 3.87	NOV 2.87	210.0	35.0	4.03	4.07	*****	0.1110	3.30	0.65
NOV 4.87	NOV 3.87	210.0	36.0	4.10	4.16	*****	0.1010	3.55	0.98
NOV 5.87	NOV 4.87	254.0	20.0	4.42	4.49	*****	0.0574	2.55	0.57
NOV 6.87	NOV 5.87	113.0	8.0	4.80	4.74	*****	0.0371	1.50	0.10
NOV 7.87	NOV 6.87	74.0	5.0	*****	5.51	*****	0.0202	1.00	0.23
NOV 9.87	NOV 7.87	436.0	37.0	*****	4.10	*****	0.1100	2.65	1.27
NOV 12.87	NOV 11.87	20.0	9.0	*****	5.01	*****	0.0320	1.25	0.52
NOV 16.87	NOV 15.87	452.0	18.0	4.35	4.43	*****	0.0571	2.25	0.37
NOV 19.87	NOV 18.87	340.0	7.0	D	4.79	*****	0.0342	1.05	0.13
NOV 20.87	NOV 19.87	277.0	10.0	4.69	4.71	*****	0.0405	0.90	0.50

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOs - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITINGROVE/DAILY/AEROCHEN				#07	PAGE : 9			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 29,87	AUG 28,87	0.54	0.16	0.065	0.055	0.065	0.065	0.1000
AUG 30,87	AUG 29,87	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AUG 31,87	AUG 30,87	< 0.04	< 0.01	< 0.005	< 0.015	< 0.005	0.225	0.0191
SEP 1,87	AUG 31,87	< 0.06	D	0.012	D	0.085	0.030	0.0054
SEP 2,87	SEP 1,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 3,87	SEP 2,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 4,87	SEP 3,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 5,87	SEP 4,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 6,87	SEP 5,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 7,87	SEP 6,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 8,87	SEP 7,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 9,87	SEP 8,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 10,87	SEP 9,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 11,87	SEP 10,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 12,87	SEP 11,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 13,87	SEP 12,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 14,87	SEP 13,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 15,87	SEP 14,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 16,87	SEP 15,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 17,87	SEP 16,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 18,87	SEP 17,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 19,87	SEP 18,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 20,87	SEP 19,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 21,87	SEP 20,87	0.34	0.10	0.045	0.065	0.110	0.055	0.0021
SEP 22,87	SEP 21,87	0.16	D	< 0.012	D	0.055	0.210	0.0302
SEP 23,87	SEP 22,87	0.16	D	< 0.031	D	0.215	D	0.190
SEP 24,87	SEP 23,87	0.22	< 0.02	< 0.035	D	0.075	0.030	0.0263
SEP 25,87	SEP 24,87	0.42	< 0.02	0.045	D	0.050	0.115	0.0204
SEP 26,87	SEP 25,87	0.82	0.02	0.045	IIS	IIS	IIS	0.2344
SEP 27,87	SEP 26,87	IIS	IIS	IIS	IIS	IIS	IIS	0.0955
SEP 28,87	SEP 27,87	0.34	0.12	0.040	0.050	0.040	0.475	0.0372
SEP 29,87	SEP 28,87	0.36	0.03	0.036	0.035	0.040	0.100	0.0058
SEP 30,87	SEP 29,87	0.36	< 0.03	0.036	0.070	0.035	0.325	0.0004
OCT 1,87	SEP 30,87	0.72	< 0.04	0.125	0.120	0.115	0.115	0.0676
OCT 2,87	OCT 1,87	0.54	< 0.03	0.125	0.120	0.115	0.415	0.0002
OCT 3,87	OCT 2,87	0.72	< 0.04	0.125	0.120	0.115	0.415	0.0098
OCT 4,87	OCT 3,87	0.90	0.14	0.115	0.060	0.055	0.080	0.0316
OCT 5,87	OCT 4,87	2.36	0.72	0.530	0.215	2.720	1.150	0.0501
OCT 6,87	OCT 5,87	0.20	0.07	0.025	D	0.065	0.080	0.0468
OCT 7,87	OCT 6,87	0.72	0.27	0.220	D	0.075	0.770	0.0316
OCT 8,87	OCT 7,87	1.60	0.27	0.220	D	0.075	0.770	0.0316
OCT 9,87	OCT 8,87	0.52	0.11	0.065	0.035	0.040	0.425	0.0501
OCT 10,87	OCT 9,87	0.16	< 0.04	0.010	< 0.025	0.015	0.425	0.0468
OCT 11,87	OCT 10,87	0.16	0.09	0.010	< 0.025	0.015	IIS	0.0360
OCT 12,87	OCT 11,87	0.16	0.09	0.010	0.165	0.125	0.950	0.0575
OCT 13,87	OCT 12,87	0.16	0.09	0.010	0.050	0.030	0.950	0.0575
OCT 14,87	OCT 13,87	0.16	0.09	< 0.010	< 0.015	0.015	0.195	0.00851
OCT 15,87	OCT 14,87	0.16	0.09	< 0.010	< 0.020	< 0.010	0.365	0.0324
OCT 16,87	OCT 15,87	0.16	0.09	< 0.010	< 0.020	< 0.010	0.150	0.0324
OCT 17,87	OCT 16,87	0.16	0.09	< 0.005	< 0.020	0.015	1.250	0.0031
OCT 18,87	OCT 17,87	0.16	0.09	0.210	0.205	0.110	1.250	0.0031
OCT 19,87	OCT 18,87	0.82	< 0.02	0.015	0.065	0.070	0.210	0.00851
OCT 20,87	OCT 19,87	1.42	0.24	0.015	0.130	0.110	0.745	0.0324
OCT 21,87	OCT 20,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 22,87	OCT 21,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 23,87	OCT 22,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 24,87	OCT 23,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 25,87	OCT 24,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 26,87	OCT 25,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 27,87	OCT 26,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 28,87	OCT 27,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 29,87	OCT 28,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
OCT 30,87	OCT 29,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 1,87	OCT 30,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 2,87	NOV 1,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 3,87	NOV 2,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 4,87	NOV 3,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 5,87	NOV 4,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 6,87	NOV 5,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 7,87	NOV 6,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 8,87	NOV 7,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 9,87	NOV 8,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 10,87	NOV 9,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 11,87	NOV 10,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 12,87	NOV 11,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 13,87	NOV 12,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 14,87	NOV 13,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 15,87	NOV 14,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 16,87	NOV 15,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 17,87	NOV 16,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 18,87	NOV 17,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 19,87	NOV 18,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324
NOV 20,87	NOV 19,87	0.16	0.09	0.025	0.065	0.040	0.715	0.0324

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM										807		PAGE : 10	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS		
				01-RAIN		01-STD.		02-APIOS	03-AES		FIELD	OFFICE	
				02-SNOW		02-NIPHER		03-SPECIAL					
				03-COMP/04-OTHER									
NOV 22,87	NOV 21,87	730	800	1100 1300	3	MMM	2	49581	2	1	MMM	X	
NOV 24,87	NOV 23,87	745	730	1030 1400	1	4.4	2	49582	2	1	U	P	
NOV 25,87	NOV 24,87	730	730	930 1100	1	MMM	2	49583	2	1	MMM	X	
NOV 26,87	NOV 25,87	730	730	900 1300	2	17.4	2	49584	2	1	62	CH	
NOV 30,87	NOV 29,87	900	745	1000 1400	1	12.2	2	49585	2	1	67	M	
DEC 1,87	NOV 30,87	730	730	1400 1500	3	0.8	2	49586	2	1	163	N	
DEC 3,87	DEC 2,87	730	300	500	2	0.2	2	49587	2	1	850	C	
DEC 9,87	DEC 8,87	730	730	630 1300	1	9.2	2	49589	2	1	79	NNH	
DEC 10,87	DEC 9,87	730	600	730 1200	1	14.2	2	49590	2	1	100		
DEC 11,87	DEC 10,87	800	745	800 900	1	1.0	2	49593	2	1	190	NH	
DEC 14,87	DEC 13,87	900	730	400 630	3	11.6	2	49594	2	1	91	Y2	
DEC 15,87	DEC 14,87	730	730	1000 1100	3	1.0	2	49595	2	1	121	NNH	
DEC 16,87	DEC 15,87	730	745	1000 1500	2	21.2	2	49596	2	1	46	C	
DEC 17,87	DEC 16,87	745	730	300 400	2	2.4	2	49597	2	1	MMH	X	
DEC 19,87	DEC 18,87	720	600	900 1100	2	2.4	2	49598	2	1	43	N	
DEC 21,87	DEC 20,87	800	745	1000 1200	3	15.0	2	49599	2	1	83		
DEC 22,87	DEC 21,87	815	800	900 1200	3	6.4	2	49600	2	1	80	N	
DEC 23,87	DEC 22,87	815	800	1000 1200	2	3.2	2	49601	2	1	34	N	
DEC 24,87	DEC 23,87	800	800	1500 1700	2	0.2	2	49602	2	1	327	N	
DEC 26,87	DEC 25,87	900	900	1000 1100	3	4.4	2	49603	2	1	91	N	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WITHTROVE/DAILY/AEROCHEM				#07		PAGE : 11			
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 22,87	NOV 21,87	6.0	*****	*****	*****	*****	*****	*****	*****
NOV 24,87	NOV 23,87	560.0	39.0	4.12	4.13	*****	0.1040	4.10	1.32
NOV 25,87	NOV 24,87	4.0	*****	*****	*****	*****	*****	*****	*****
NOV 26,87	NOV 25,87	4.0	*****	*****	*****	*****	*****	*****	*****
NOV 26,87	NOV 25,87	692.0	2.0	4.96	5.07	*****	0.0245	0.25	0.11
NOV 30,87	NOV 29,87	685.0	11.0	4.56	4.70	*****	0.0410	1.00	0.20
DEC 1,87	NOV 30,87	84.0	20.0	*****	4.51	*****	0.0582	1.15	0.58
DEC 3,87	DEC 2,87	109.0	5.0	*****	6.94	*****	0.0174	0.90	0.14
DEC 9,87	DEC 8,87	466.0	46.0	3.99	3.93	*****	0.1280	3.45	0.63
DEC 10,87	DEC 9,87	913.0	28.0	4.29	4.24	*****	0.0780	2.60	0.40
DEC 11,87	DEC 10,87	122.0	13.0	4.56	4.66	*****	0.0431	1.00	0.29
DEC 14,87	DEC 12,87	678.0	21.0	4.37	4.41	*****	0.0633	1.30	0.57
DEC 15,87	DEC 14,87	78.0	6.0	*****	6.82	*****	0.0173	1.10	0.16
DEC 16,87	DEC 15,87	634.0	6.5	4.91	4.97	*****	0.0308	0.60	0.31
DEC 17,87	DEC 16,87	1.0	*****	*****	*****	*****	*****	*****	*****
DEC 19,87	DEC 18,87	67.0	25.0	*****	6.74	*****	0.0218	2.55	1.28
DEC 21,87	DEC 20,87	802.0	11.0	4.65	4.70	*****	0.0438	1.00	0.36
DEC 22,87	DEC 21,87	435.0	10.0	4.91	4.98	*****	0.0361	0.70	0.47
DEC 23,87	DEC 22,87	70.0	21.0	*****	4.52	*****	0.0581	0.85	0.97
DEC 24,87	DEC 23,87	42.0	21.0	*****	7.04	*****	0.0215	1.25	1.06
DEC 26,87	DEC 25,87	258.0	27.5	4.24	4.29	*****	0.0828	2.20	0.60

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WITTHROVE/DAILY/AEROCHEM				#07	PAGE : 12			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 22,87	NOV 21,87	*****	*****	*****	*****	*****	*****	*****
NOV 24,87	NOV 23,87	0.60	0.37	0.070	0.075	0.195	1.000	0.0741
NOV 25,87	NOV 24,87	*****	*****	*****	*****	*****	*****	*****
NOV 26,87	NOV 25,87	<T	0.01	<T	<M	0.005	0.005	0.0085
NOV 30,87	NOV 29,87	<T	0.03	<M	<T	0.015	0.030	0.0200
DEC 1,87	NOV 30,87	0.12	0.12	<T	0.040	0.030	0.215	0.0309
DEC 3,87	DEC 2,87	0.02	0.09	<M	<T	0.025	0.630	0.0001
DEC 9,87	DEC 8,87	0.16	0.47	0.030	D	0.045	0.145	0.1175
DEC 10,87	DEC 9,87	0.08	0.14	<T	<T	0.015	0.240	0.0575
DEC 11,87	DEC 10,87	<T	0.07	<M	<T	0.030	0.075	0.0219
DEC 14,87	DEC 13,87	<T	0.09	<M	<T	0.015	0.240	0.0389
DEC 15,87	DEC 14,87	0.02	0.06	<M	0.035	0.025	0.660	0.0002
DEC 16,87	DEC 15,87	<T	0.01	<M	<T	0.010	0.210	0.0107
DEC 17,87	DEC 16,87	*****	*****	*****	*****	*****	*****	*****
DEC 19,87	DEC 18,87	0.58	0.66	0.085	0.045	0.205	2.150	0.0002
DEC 21,87	DEC 20,87	D	0.08	<T	<T	0.020	0.285	0.0200
DEC 22,87	DEC 21,87	0.20	0.20	0.040	<T	0.035	0.315	0.0105
DEC 23,87	DEC 22,87	0.18	0.18	0.030	<T	0.020	0.585	0.0302
DEC 24,87	DEC 23,87	0.10	0.24	<T	0.060	0.075	2.350	0.0001
DEC 26,87	DEC 25,87	0.12	0.13	<T	<T	0.010	0.025	0.0513

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM										#05	PAGE : 1			
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE			
										03-SPECIAL				
										01-STD.				
										02-NIPHER				
										03-COMP/04-OTHER				
JAN 3-87	JAN 2-87	905 900	1800 2200	2	1.4	2	46029	2	1	65	T			
JAN 7-87	JAN 6-87	900 900	500 900	3	2.2	2	46030	2	1	101	E			
JAN 8-87	JAN 7-87	900 900	900 1000	3	MMMM	2	46031	2	1	MMMM				
JAN 9-87	JAN 8-87	900 850	900 1230	3	1.2	2	46032	2	1	62	H			
JAN 10-87	JAN 9-87	850 900	200 900	2	5.6	2	46033	2	1	41	NC			
JAN 11-87	JAN 10-87	900 900	1700 100	2	3.8	2	46034	2	1	27	N			
JAN 13-87	JAN 12-87	900 900	930 1130	2	0.4	2	46035	2	1	89	N			
JAN 15-87	JAN 14-87	900 930	800 930	3	0.6	2	46036	2	1	161	N			
JAN 16-87	JAN 15-87	930 900	930 1130	2	0.2	2	46037	2	1	179	N			
JAN 18-87	JAN 17-87	930 920	300 900	2	6.2	2	46039	2	1	55	N			
JAN 19-87	JAN 18-87	920 900	900 1420	2	3.4	2	46040	2	1	76	N			
JAN 23-87	JAN 22-87	930 850	1830 100	2	3.0	2	46043	2	1	47	NC			
JAN 24-87	JAN 23-87	850 900	1600 300	2	6.2	2	46044	2	1	70	C			
JAN 25-87	JAN 24-87	900 900	1430 200	2	4.8	2	46045	2	1	23	N			
JAN 29-87	JAN 28-87	915 900	1700 100	2	0.3	2	46047	2	1	46	E			
JAN 30-87	JAN 29-87	900 910	300 900	2	3.2	2	46048	2	1	4	N			
JAN 31-87	JAN 30-87	910 900	MMMM	2	9.4	2	46049	2	1	15	N			
FEB 2-87	FEB 1-87	900 910	MMMM	2	4.4	2	46050	2	1	62	N			
FEB 3-87	FEB 2-87	910 900	1230 500	2	1.6	2	46051	2	1	79	C			
FEB 4-87	FEB 3-87	900 900	920 1000	2	MMMM	2	46052	2	1	MMMM	E			
FEB 5-87	FEB 4-87	900 915	1700 100	2	1.2	2	46053	2	1	41	N			
FEB 7-87	FEB 6-87	915 900	900 200	2	2.4	2	46055	2	1	50				
FEB 8-87	FEB 7-87	915 900	900 2130	2	6.6	2	46056	2	1	53				
FEB 9-87	FEB 8-87	900 900	900 900	2	0.6	2	46058	2	1	52	N			
FEB 10-87	FEB 9-87	900 900	600 900	2	0.6	2	46060	2	1	36				
FEB 13-87	FEB 12-87	910 915	1830 2300	2	0.6	2	46061	2	1	70	C			
FEB 23-87	FEB 22-87	915 915	1640 2000	2	1.0	2	46065	2	1	70	NCN			
MAR 1-87	FEB 28-87	915 920	1230 920	2	10.2	2	46066	2	1	90	C			
MAR 2-87	MAR 1-87	920 900	1315 900	3	17.0	2	46067	2	1	74				
MAR 3-87	MAR 2-87	900 910	900 1230	2	1.6	2	46070	2	1	12	GE			
MAR 4-87	MAR 3-87	910 900	900 1030	2	0.2	2	46071	2	1	15	E			
MAR 26-87	MAR 25-87	920 900	2100 900	1	5.5	2	46074	2	1	98	N			
MAR 27-87	MAR 26-87	900 900	1540 2350	1	1.5	2	46075	2	1	133	N			
MAR 30-87	MAR 29-87	900 900	1300 2330	1	0.4	2	46076	2	1	195	NCN			
MAR 31-87	MAR 30-87	900 900	100 900	1	7.3	2	46077	2	1	110				
APR 1-87	MAR 31-87	900 900	1900 900	3	24.4	2	46078	2	1	64				
APR 2-87	APR 1-87	900 900	900 2300	2	13.0	2	46079	2	1	41	NC			
APR 3-87	APR 2-87	900 900	1830 200	2	4.5	2	46080	2	1	9	N			
APR 5-87	APR 4-87	900 900	1600 1230	2	0.7	2	46081	2	1	35	N			
APR 5-87	APR 4-87	900 900	900 330	3	11.0	2	46083	2	1	109	C			

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM					#05	PAGE : 2			
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PHG.3 HG/L	TOTAL H+ GRAN HG/L	SULPHATE HG/L	NITRATE AS N HG/L
JAN 3,67	JAN 2,67	59.0	6.1	LG	4.87	#####	0.0284	<T	0.15
JAN 7,67	JAN 6,67	143.0	92.2	#####	3.66	#####	0.2140	D	2.82
JAN 8,67	JAN 7,67	1.0	#####	#####	#####	#####	#####	#####	#####
JAN 9,67	JAN 8,67	46.0	36.4	#####	4.71	#####	0.0437	#####	0.99
JAN 10,67	JAN 9,67	140.0	1.5	#####	4.81	#####	0.0321	0.70	0.51
JAN 11,67	JAN 10,67	66.0	32.0	#####	4.10	#####	0.0872	1.65	0.76
JAN 12,67	JAN 11,67	23.0	22.9	#####	4.26	#####	0.0654	2.10	0.18
JAN 13,67	JAN 12,67	62.0	>	#####	3.52	#####	0.3290	6.60	2.90
JAN 14,67	JAN 13,67	23.0	42.8	#####	4.15	#####	0.0880	2.25	1.73
JAN 15,67	JAN 14,67	219.0	12.6	4.52	4.52	#####	0.0426	<T	0.05
JAN 16,67	JAN 15,67	167.0	11.4	4.54	4.06	#####	0.0401	<T	0.10
JAN 17,67	JAN 16,67	91.0	24.3	#####	5.29	#####	0.0933	0.40	1.08
JAN 18,67	JAN 17,67	281.0	4.0	5.06	4.90	#####	0.0196	<T	0.15
JAN 19,67	JAN 18,67	71.0	8.8	#####	4.87	#####	0.0288	0.40	0.23
JAN 20,67	JAN 19,67	9.0	#####	#####	#####	#####	#####	#####	#####
JAN 21,67	JAN 20,67	9.0	8.0	#####	4.05	#####	0.0297	<T	0.10
JAN 22,67	JAN 21,67	95.0	36.8	#####	4.05	#####	0.0973	1.60	0.82
JAN 23,67	JAN 22,67	64.0	62.0	#####	3.94	#####	0.1360	3.25	1.97
FEB 2,67	FEB 1,67	225.0	24.1	#####	4.36	#####	0.0599	1.50	0.72
FEB 3,67	FEB 2,67	1.0	#####	#####	#####	#####	#####	#####	#####
FEB 4,67	FEB 3,67	32.0	6.3	#####	6.15	#####	0.0170	0.80	0.16
FEB 5,67	FEB 4,67	78.0	26.6	#####	6.42	#####	0.0568	2.25	0.95
FEB 6,67	FEB 5,67	162.0	39.8	4.24	4.26	#####	0.0759	2.05	1.58
FEB 7,67	FEB 6,67	221.0	40.3	4.28	4.30	#####	0.0705	3.05	1.43
FEB 8,67	FEB 7,67	14.0	14.0	#####	4.99	#####	0.0323	0.75	0.64
FEB 9,67	FEB 8,67	27.0	23.0	#####	4.46	#####	0.0550	0.80	0.90
FEB 10,67	FEB 9,67	45.0	>	#####	3.62	#####	0.4710	5.85	2.51
FEB 11,67	FEB 10,67	594.0	12.8	4.53	4.70	#####	0.0403	0.75	0.21
FEB 12,67	FEB 11,67	17.0	25.8	4.24	4.32	#####	0.0702	1.35	0.48
MAR 2,67	MAR 1,67	113.0	#####	#####	#####	#####	#####	#####	#####
MAR 3,67	MAR 2,67	2.0	#####	#####	#####	#####	#####	#####	#####
MAR 4,67	MAR 3,67	346.0	41.0	4.05	4.20	#####	0.1020	2.05	0.82
MAR 5,67	MAR 4,67	50.0	50.0	3.98	4.01	#####	0.1320	3.25	1.09
MAR 6,67	MAR 5,67	128.0	>	#####	3.59	#####	0.3060	8.80	2.56
MAR 7,67	MAR 6,67	50.0	100.0	#####	4.03	#####	0.1290	3.90	0.84
MAR 8,67	MAR 7,67	519.0	48.0	3.98	4.53	#####	0.0499	1.15	0.16
MAR 9,67	MAR 8,67	1005.0	14.3	4.45	5.00	#####	0.0312	1.00	0.09
MAR 10,67	MAR 9,67	344.0	6.2	4.65	4.31	#####	0.0750	1.15	0.61
APR 1,67	APR 31,67	28.0	24.5	#####	4.67	#####	0.0439	0.65	0.39
APR 2,67	APR 1,67	16.0	19.0	#####	4.95	#####	0.0312	0.45	0.08
APR 3,67	APR 2,67	775.0	7.5	4.77	4.95	#####	0.0312	0.45	0.08
APR 4,67	APR 3,67	775.0	7.5	4.77	4.95	#####	0.0312	0.45	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEN				#05	PAGE : 3			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 3-87	JAN 2-87	0.12	0.09	<T	<T	0.045	<T	0.0135
JAN 7-87	JAN 6-87	0.44	0.45	0.060	0.075	0.140	0.010	0.2188
JAN 8-87	JAN 7-87	*****	*****	*****	*****	*****	*****	*****
JAN 9-87	JAN 8-87	2.00	0.46	0.100	0.085	0.280	0.125	0.0195
JAN 10-87	JAN 9-87	0.60	0.08	<T	<T	0.030	0.030	0.0129
JAN 11-87	JAN 10-87	0.10	0.20	<T	0.005	0.070	0.185	0.0794
JAN 13-87	JAN 12-87	<T	0.09	<T	<T	0.045	0.055	0.0550
JAN 15-87	JAN 14-87	0.42	0.94	0.035	0.140	0.245	*****	LG 0.3020
JAN 16-87	JAN 15-87	*****	0.24	IIS *****	IIS *****	IIS *****	IAD *****	0.1330
JAN 18-87	JAN 17-87	<T	0.10	<T	0.005	0.025	<T	0.0302
JAN 19-87	JAN 18-87	<T	0.02	<W	0.005	<T	<T	0.0263
JAN 23-87	JAN 22-87	<T	0.08	0.12	0.010	0.040	0.110	0.0871
JAN 24-87	JAN 23-87	<T	0.04	<T	<T	0.060	0.015	0.0051
JAN 25-87	JAN 24-87	0.18	0.13	<T	0.025	0.095	0.035	0.0126
JAN 29-87	JAN 28-87	*****	*****	*****	*****	*****	*****	*****
JAN 30-87	JAN 29-87	IIS *****	0.08	IIS *****	IIS *****	IIS *****	IIR *****	0.0135
JAN 31-87	JAN 30-87	<T	0.13	<T	0.005	0.040	0.200	0.0891
FEB 2-87	FEB 1-87	1.00	0.92	0.105	0.215	0.550	0.775	0.1148
FEB 3-87	FEB 2-87	0.22	0.13	<T	0.015	0.080	0.525	0.0637
FEB 4-87	FEB 3-87	*****	*****	*****	*****	*****	*****	*****
FEB 5-87	FEB 4-87	0.52	0.22	<T	<T	0.125	0.060	0.0007
FEB 7-87	FEB 6-87	0.40	0.21	0.040	0.035	0.090	0.850	0.0360
FEB 8-87	FEB 7-87	0.48	0.36	0.065	0.030	0.115	1.050	0.0550
FEB 9-87	FEB 8-87	0.24	0.27	0.035	0.045	0.060	1.550	0.0501
FEB 10-87	FEB 9-87	0.50	0.17	0.070	0.040	0.110	0.210	0.0129
FEB 13-87	FEB 12-87	0.68	0.35	D 0.050	0.035	0.245	0.085	0.0363
FEB 15-87	FEB 14-87	0.88	1.65	0.100	0.035	0.275	0.210	0.5802
MAR 1-87	FEB 28-87	<T	<W	<W	<W	<T	0.055	0.0200
MAR 2-87	MAR 1-87	<W	0.01	<W	<W	<T	0.110	0.0479
MAR 3-87	MAR 2-87	*****	0.04	0.005	*****	*****	*****	*****
MAR 4-87	MAR 3-87	*****	*****	*****	*****	*****	*****	*****
MAR 26-87	MAR 25-87	0.15	<W	<T	<T	0.050	0.500	0.0651
MAR 27-87	MAR 26-87	0.16	<T	0.04	<T	0.060	0.705	0.0977
MAR 28-87	MAR 27-87	2.50	0.93	<T	0.065	0.240	1.750	0.2570
MAR 30-87	MAR 29-87	0.22	<W	<T	0.025	0.045	0.670	0.0953
MAR 31-87	MAR 30-87	0.02	<W	<W	<T	0.015	0.035	0.0295
APR 1-87	MAR 31-87	<T	0.02	<W	<T	<T	0.015	0.0100
APR 2-87	APR 1-87	0.12	<W	<T	D 0.025	0.065	0.100	0.0490
APR 3-87	APR 2-87	0.26	0.01	0.010	0.035	0.095	0.095	0.0214
APR 5-87	APR 4-87	0.02	<W	<T	0.005	0.025	0.005	0.010

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEEN

#05

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
						01-STD.		02-APIOS	01-HOE		
						02-NIPHER		03-SPECIAL	03-AES		
APR 6-87	APR 5-87	900	900	1330 1500	1	0.2	2	48084	2	1	85
APR 7-87	APR 6-87	900	900	1420 1500	1	****	2	48085	2	1	****
APR 15-87	APR 14-87	900	900	2300 130	1	0.4	2	48086	2	1	253
APR 22-87	APR 21-87	900	900	1900 1940	1	****	2	48087	2	1	****
APR 24-87	APR 23-87	900	915	825 1130	1	0.7	1	48088	2	1	62
APR 26-87	APR 25-87	900	910	1600 2100	1	7.6	1	48090	2	1	98
APR 29-87	APR 28-87	910	915	900 1400	1	6.8	1	48091	2	1	93
APR 30-87	APR 29-87	915	900	2000 2300	1	9.4	1	48092	2	1	95
MAY 11-87	MAY 10-87	900	910	****	1	6.8	1	48094	2	1	104
MAY 12-87	MAY 11-87	910	900	1230 1530	1	4.6	1	48095	2	1	100
MAY 19-87	MAY 18-87	900	910	1530 1700	1	20.6	1	48096	2	1	100
MAY 22-87	MAY 21-87	900	900	****	1	0.2	1	48099	2	1	****
MAY 23-87	MAY 22-87	900	900	200 500	1	0.2	1	48100	2	1	101
MAY 24-87	MAY 23-87	900	900	10 230	1	0.8	1	48101	2	1	52
MAY 25-87	MAY 24-87	900	900	900 1500	1	1.6	1	48102	2	1	66
MAY 27-87	MAY 26-87	800	900	900 900	1	0.4	1	48103	2	1	****
MAY 28-87	MAY 27-87	900	900	1140 1530	1	3.0	1	48104	2	1	****
JUN 1-87	MAY 31-87	900	900	1020 1215	1	0.2	1	48105	2	1	54
JUN 2-87	JUN 1-87	915	900	525 830	1	1.2	1	48106	2	1	84
JUN 4-87	JUN 3-87	900	910	1245 1400	1	4.0	1	48107	2	1	99
JUN 6-87	JUN 5-87	910	915	900 1215	1	1.6	1	48108	2	1	85
JUN 7-87	JUN 6-87	915	900	2340 130	1	2.0	1	48109	2	1	84
JUN 8-87	JUN 7-87	900	900	400 900	1	1.6	1	48110	2	1	91
JUN 9-87	JUN 8-87	900	900	900 1000	1	0.2	1	48111	2	1	100
JUN 10-87	JUN 9-87	900	900	1090 103	1	12.8	1	48114	2	1	116
JUN 12-87	JUN 11-87	900	900	1030 1930	1	0.2	1	48115	2	1	0
JUN 13-87	JUN 12-87	900	930	430 1300	1	9.2	1	48116	2	1	100
JUN 14-87	JUN 13-87	930	920	100 900	1	0.2	1	48117	2	1	62
JUN 23-87	JUN 22-87	900	900	1000 1500	1	1.0	1	48118	2	1	74
JUN 26-87	JUN 25-87	900	900	320 900	1	3.0	1	48120	2	1	97
JUN 27-87	JUN 26-87	900	900	1000 1730	1	4.0	1	48121	2	1	97
JUN 28-87	JUN 27-87	900	900	1150 1230	1	0.4	1	48122	2	1	66
JUN 29-87	JUN 28-87	900	900	530 900	1	5.8	1	48123	2	1	94
JUN 30-87	JUN 29-87	900	900	900 1200	1	6.0	1	48124	2	1	96
JUL 3-87	JUL 2-87	900	900	900 2100	1	15.0	1	48125	2	1	104
JUL 4-87	JUL 3-87	900	900	1930 2000	1	1.4	1	48128	2	1	81
JUL 7-87	JUL 6-87	900	900	1740 2000	1	13.6	1	48129	2	1	100
JUL 8-87	JUL 7-87	900	900	1900 2030	1	18.2	1	48132	2	1	99
JUL 9-87	JUL 8-87	900	900	2015 2300	1	7.6	1	48133	2	1	101
JUL 9-87	JUL 8-87	900	920	1751 1900	1	0.2	1	48134	2	1	****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
AP105 - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM										#05	PAGE : 5				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHQ/CM	PH FIELD	PH LAB	TOTAL HA TO PH3.3 MG/L	TOTAL HA GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L						
APR 6,87	APR 5,87	11.0	D	11.0	4.77	*****	D	0.0384	D	1.05	0.12				
APR 7,87	APR 6,87	2.0	*****	*****	*****	*****	*****	*****	*****	*****	*****				
APR 15,87	APR 14,87	65.0	61.0	*****	3.94	*****	*****	0.1660	8.35	*****	1.29				
APR 22,87	APR 21,87	1.0	*****	*****	*****	*****	*****	0.3900	14.00	*****	3.05				
APR 28,87	APR 27,87	28.0	>	*****	3.51	*****	*****	0.0179	2.85	*****	*****				
APR 28,87	APR 27,87	482.0	20.0	UG	UG	*****	UG	0.0378	1.20	*****	0.06				
APR 29,87	APR 28,87	406.0	9.0	4.56	4.76	*****	*****	0.0378	1.20	*****	0.06				
APR 30,87	APR 29,87	350.0	9.0	4.49	6.12	*****	*****	0.0167	2.55	*****	0.23				
MAY 11,87	MAY 10,87	654.0	50.0	4.10	4.79	*****	*****	0.0829	6.35	*****	0.67				
MAY 12,87	MAY 11,87	297.0	44.0	4.04	4.51	*****	*****	0.0874	7.00	*****	1.00				
MAY 15,87	MAY 14,87	1322.0	45.0	4.15	4.24	*****	*****	0.0874	7.00	*****	1.00				
MAY 19,87	MAY 18,87	*****	*****	*****	*****	*****	*****	0.2260	8.30	*****	1.20				
MAY 22,87	MAY 21,87	273.0	87.0	3.70	3.66	*****	*****	0.2260	8.30	*****	1.20				
MAY 23,87	MAY 22,87	27.0	D	*****	3.95	*****	*****	0.1380	7.50	*****	2.70				
MAY 24,87	MAY 23,87	70.0	32.0	*****	4.22	*****	*****	0.0798	3.20	*****	0.65				
MAY 25,87	MAY 24,87	*****	*****	*****	*****	*****	*****	0.0798	3.20	*****	0.65				
MAY 27,87	MAY 26,87	189.0	>	*****	3.46	*****	UG	0.3850	16.50	*****	1.80				
MAY 28,87	MAY 27,87	7.0	D	39.5	3.41	*****	UG	0.3850	16.50	*****	1.80				
JUN 1,87	MAY 31,87	65.0	>	*****	D	*****	B	0.1040	3.50	*****	0.79				
JUN 2,87	JUN 1,87	254.0	36.9	4.06	4.03	*****	*****	0.2910	10.75	*****	1.58				
JUN 4,87	JUN 3,87	88.0	27.2	*****	4.08	*****	*****	0.0966	3.25	*****	0.81				
JUN 6,87	JUN 5,87	108.0	9.6	6.69	4.29	*****	*****	0.0659	3.15	*****	0.54				
JUN 7,87	JUN 6,87	94.0	37.4	*****	5.29	*****	*****	0.0251	1.30	*****	0.16				
JUN 8,87	JUN 7,87	827.0	12.6	4.77	4.22	*****	*****	0.0763	4.70	*****	1.13				
JUN 9,87	JUN 8,87	15.0	10.7	*****	6.19	*****	*****	0.0223	1.60	*****	0.45				
JUN 10,87	JUN 9,87	15.0	23.0	*****	4.09	*****	*****	0.0300	1.05	*****	0.13				
JUN 12,87	JUN 11,87	595.0	57.1	3.85	4.40	*****	D	0.0664	2.15	*****	0.11				
JUN 13,87	JUN 12,87	8.0	11.2	*****	3.69	*****	*****	0.1520	6.65	*****	0.77				
JUN 14,87	JUN 13,87	48.0	21.9	*****	5.19	*****	*****	0.0286	1.15	*****	0.34				
JUN 23,87	JUN 22,87	187.0	*****	*****	4.44	*****	*****	0.0631	2.05	*****	0.36				
JUN 26,87	JUN 25,87	249.0	>	*****	*****	*****	*****	0.0631	2.05	*****	0.36				
JUN 27,87	JUN 26,87	17.0	32.0	3.63	4.29	*****	*****	0.0631	2.05	*****	0.36				
JUN 28,87	JUN 27,87	352.0	16.6	4.19	4.64	*****	*****	0.0631	2.05	*****	0.36				
JUN 29,87	JUN 28,87	373.0	0.3	4.19	4.31	*****	*****	0.0733	3.35	*****	0.65				
JUN 30,87	JUN 29,87	1008.0	LG	4.01	4.04	*****	*****	0.1230	7.65	*****	1.15				
JUL 3,87	JUL 2,87	73.0	LG	*****	4.23	*****	*****	0.0843	2.20	*****	0.60				
JUL 4,87	JUL 3,87	874.0	20.1	4.41	4.58	*****	*****	0.0490	2.20	*****	0.60				
JUL 7,87	JUL 6,87	1161.0	64.8	3.81	4.68	*****	*****	0.1760	6.70	*****	0.65				
JUL 8,87	JUL 7,87	494.0	14.6	4.43	4.63	*****	*****	0.0418	0.60	*****	0.20				
JUL 9,87	JUL 8,87	*****	*****	*****	*****	*****	*****	0.0418	0.60	*****	0.20				

STATION NAME : RAVEN LAKE/DAILY/AEROCHEN				#05	PAGE : 6			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H ₂ LAB MG/L
APR 6,87	APR 5,87	D	<T	<T	0.010	0.025	0.090	<T
APR 7,87	APR 6,87	*****	*****	*****	*****	*****	*****	*****
APR 15,87	APR 14,87	1.42	0.32	0.165	0.055	0.140	0.800	0.1148
APR 22,87	APR 21,87	*****	*****	*****	*****	*****	*****	*****
APR 24,87	APR 23,87	D	0.99	0.505	0.205	D	0.790	LG
APR 26,87	APR 25,87	1.96	0.65	0.495	0.070	0.350	0.580	UG
APR 29,87	APR 28,87	0.26	0.01	0.035	0.005	0.025	0.0174	UG
APR 30,87	APR 29,87	1.58	0.22	0.145	0.050	0.040	0.260	UG
MAY 11,87	MAY 10,87	0.84	0.31	0.270	0.105	0.055	0.0162	UG
MAY 12,87	MAY 11,87	1.88	0.21	0.110	0.040	0.040	0.0309	UG
MAY 15,87	MAY 14,87	1.38	0.24	0.230	0.125	0.025	1.080	0.0575
MAY 19,87	MAY 18,87	*****	*****	*****	*****	*****	*****	*****
MAY 22,87	MAY 21,87	0.26	0.21	0.020	0.045	0.075	0.600	0.2188
MAY 23,87	MAY 22,87	1.28	0.37	0.225	0.130	0.225	2.450	D
MAY 24,87	MAY 23,87	0.24	0.15	<T	0.070	0.125	0.685	0.0603
MAY 25,87	MAY 24,87	*****	*****	*****	*****	*****	*****	*****
MAY 27,87	MAY 26,87	0.48	0.35	0.035	0.070	0.090	1.200	LG
MAY 28,87	MAY 27,87	0.38	D	0.34	0.075	0.165	0.895	0.0933
JUN 1,87	MAY 31,87	0.54	0.36	0.070	0.050	0.150	0.850	D
JUN 2,87	JUN 1,87	0.32	0.17	0.050	0.030	0.035	0.560	0.0832
JUN 4,87	JUN 3,87	0.58	0.12	0.030	0.035	0.060	0.410	0.0513
JUN 6,87	JUN 5,87	0.40	0.08	0.035	<T	0.050	0.235	0.0051
JUN 7,87	JUN 6,87	1.16	0.24	0.160	0.065	0.075	1.050	0.0603
JUN 8,87	JUN 7,87	0.38	0.10	0.065	0.035	<T	0.765	UG
JUN 9,87	JUN 8,87	<=>	D	0.020	0.035	0.015	0.140	<=>
JUN 10,87	JUN 9,87	0.20	0.62	0.020	0.040	0.430	0.110	0.0598
JUN 12,87	JUN 11,87	0.68	0.22	0.030	0.075	0.525	0.395	0.1288
JUN 13,87	JUN 12,87	0.20	0.21	0.030	0.075	0.045	0.340	0.0065
JUN 14,87	JUN 13,87	0.42	0.10	0.060	0.045	0.220	0.175	0.0363
JUN 23,87	JUN 22,87	*****	*****	*****	*****	0.135	*****	*****
JUN 25,87	JUN 24,87	*****	*****	*****	*****	*****	*****	*****
JUN 27,87	JUN 26,87	1.15	<M	0.060	0.045	0.055	0.750	D
JUN 28,87	JUN 27,87	0.14	0.01	0.030	0.045	0.025	0.720	0.0513
JUN 29,87	JUN 28,87	0.42	0.05	0.030	<T	0.020	0.295	0.0229
JUN 30,87	JUN 29,87	1.38	<M	0.095	<T	0.040	0.610	0.0490
JUL 3,87	JUL 2,87	0.44	0.15	0.040	0.040	0.040	0.730	0.0912
JUL 4,87	JUL 3,87	0.16	<T	0.030	0.045	0.135	0.155	0.0589
JUL 7,87	JUL 6,87	0.24	<T	0.035	<T	0.020	0.460	0.0263
JUL 8,87	JUL 7,87	0.12	0.05	0.015	<T	0.020	0.300	0.1579
JUL 9,87	JUL 8,87	0.02	<T	<M	<T	<T	0.160	0.0234
		*****	*****	0.005	0.015	0.025	0.160	0.0234

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05										PAGE : 7	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
03-COMP/04-OTHER											
JUL 14,87	JUL 13,87	900 920	100 920	1	24.8	1	48136	2	1	55	
JUL 15,87	JUL 14,87	920 900	920 1315	1	2.8	1	48137	2	1	93	
JUL 20,87	JUL 19,87	900 900	900 2230	1	13.6	1	48138	2	1	102	
JUL 30,87	JUL 29,87	900 900	900 2230	1	2.8	1	48140	2	1	87	J
AUG 8,87	AUG 7,87	915 915	1200 1630	1	6.0	1	48141	2	1	95	
AUG 8,87	AUG 7,87	900 900	1600 1800	1	3.0	1	48142	2	1	92	
AUG 10,87	AUG 9,87	900 900	830 1400	1	9.8	1	48143	2	1	102	H
AUG 15,87	AUG 14,87	900 830	600 830	1	0.5	1	48144	2	1	62	HCH
AUG 17,87	AUG 16,87	830 900	1950 2010	1	0.2	1	48145	2	1	116	
AUG 18,87	AUG 17,87	900 900	925 935	1	3.2	1	48146	2	1	98	
AUG 22,87	AUG 21,87	900 850	400 700	1	5.2	1	48147	2	1	106	
AUG 26,87	AUG 25,87	850 900	1010 1054	1	0.8	1	48148	2	1	89	
AUG 27,87	AUG 26,87	900 800	****	1	****	1	48149	2	1	****	E
AUG 29,87	AUG 28,87	910 900	400 650	1	1.8	1	48150	2	1	80	H
AUG 31,87	AUG 30,87	900 820	200 700	1	9.0	1	48152	2	1	101	
SEP 2,87	SEP 1,87	900 900	1500 1600	1	2.2	1	48153	2	1	90	
SEP 9,87	SEP 8,87	800 800	1656 1705	1	0.3	1	48154	2	1	52	C
SEP 10,87	SEP 9,87	800 800	1030 1630	1	6.8	1	48156	2	1	64	
SEP 12,87	SEP 11,87	800 800	900 1130	1	0.8	1	48157	2	1	74	T
SEP 14,87	SEP 13,87	900 900	2118 2230	1	4.8	1	48158	2	1	101	
SEP 17,87	SEP 16,87	900 900	1817 1930	1	2.5	1	48159	2	1	87	
SEP 18,87	SEP 17,87	900 900	500 900	1	1.3	1	48161	2	1	73	
SEP 19,87	SEP 18,87	900 900	2100 ****	1	6.8	1	48162	2	1	95	
SEP 20,87	SEP 19,87	910 910	900 930	1	1.0	1	48163	2	1	84	
SEP 21,87	SEP 20,87	900 900	1400 2200	1	9.6	1	48164	2	1	104	
SEP 22,87	SEP 21,87	900 915	1130 1210	1	7.6	1	48165	2	1	97	
SEP 26,87	SEP 25,87	900 900	830 845	1	3.8	1	48166	2	1	96	
SEP 28,87	SEP 27,87	900 900	630 930	1	****	1	48168	2	1	****	C
SEP 30,87	SEP 29,87	900 910	1500 2200	1	4.3	1	48169	2	1	97	
OCT 1,87	SEP 30,87	910 900	1940 1230	1	16.0	1	48170	2	1	83	
OCT 2,87	OCT 1,87	900 900	2030 300	1	6.6	1	48171	2	1	93	
OCT 3,87	OCT 2,87	900 900	1630 1735	1	5.4	1	48174	2	1	97	CD
OCT 6,87	OCT 5,87	900 900	2215 2230	1	1.6	1	48175	2	1	85	
OCT 8,87	OCT 7,87	900 900	1320 2230	1	0.1	1	48176	2	1	62	
OCT 10,87	OCT 9,87	810 830	745 900	1	9.4	1	48177	2	1	94	H
OCT 13,87	OCT 12,87	830 900	1400 1430	1	2.0	1	48179	2	1	87	
OCT 18,87	OCT 17,87	900 900	1430 1500	1	0.2	1	48180	2	1	109	
OCT 19,87	OCT 18,87	900 900	845 920	1	4.8	1	48181	2	1	95	
OCT 20,87	OCT 19,87	900 830	****	1	0.2	1	48182	2	1	****	E
OCT 20,87	OCT 19,87	900 830	****	1	0.3	1	48183	2	1	93	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM				#05	PAGE : 8				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 14-87	JUL 13-87	681.0	8.9	4.73	5.05	*****	0.0270	0.95	0.20
JUL 15-87	JUL 14-87	167.0	7.3	4.71	4.91	*****	D	0.40	0.15
JUL 20-87	JUL 19-87	894.0	14.0	4.43	4.63	*****	0.0043	1.25	0.45
JUL 30-87	JUL 29-87	157.0	27.7	4.64	4.85	*****	0.0356	4.20	1.20
AUG 3-87	AUG 2-87	366.0	40.4	4.71	4.02	*****	0.1120	4.20	0.55
AUG 8-87	AUG 7-87	177.0	50.8	4.07	4.12	*****	0.1030	6.60	1.30
AUG 10-87	AUG 9-87	646.0	12.2	4.48	4.54	*****	0.0440	0.95	0.10
AUG 15-87	AUG 14-87	20.0	> 100.0	B	3.41	*****	B	> 10.00	2.00
AUG 17-87	AUG 16-87	15.0	29.5	*****	4.40	*****	0.0710	4.30	0.69
AUG 18-87	AUG 17-87	202.0	19.0	*****	4.59	*****	0.0494	2.95	0.43
AUG 22-87	AUG 21-87	354.0	27.5	4.16	4.31	*****	0.0802	2.75	0.54
AUG 26-87	AUG 25-87	46.0	11A	*****	11A	*****	11A	*****	11A
AUG 27-87	AUG 26-87	3.0	*****	*****	*****	*****	*****	*****	*****
AUG 29-87	AUG 28-87	102.0	25.0	4.34	4.48	*****	B	3.50	0.49
AUG 31-87	AUG 30-87	508.0	30.0	4.23	4.23	*****	0.0846	3.35	0.46
SEP 1-87	AUG 31-87	128.0	4.5	5.06	5.31	*****	0.0274	0.31	0.11
SEP 9-87	SEP 8-87	10.0	4.0	*****	UG	*****	0.0167	0.35	<T
SEP 9-87	SEP 8-87	282.0	27.0	4.23	4.28	*****	0.0687	2.10	0.38
SEP 10-87	SEP 9-87	36.0	11S	*****	4.15	*****	0.0632	11S	11S
SEP 12-87	SEP 11-87	311.0	89.0	3.72	3.73	*****	0.2110	8.40	0.79
SEP 14-87	SEP 13-87	140.0	55.0	3.97	4.01	*****	0.1230	4.90	0.90
SEP 17-87	SEP 16-87	61.0	47.0	3.80	4.00	*****	0.1240	4.70	0.37
SEP 18-87	SEP 17-87	416.0	70.7	3.80	3.82	*****	0.1600	7.70	0.57
SEP 19-87	SEP 18-87	54.0	20.3	4.11	4.40	*****	0.0605	1.70	0.28
SEP 20-87	SEP 19-87	640.0	31.7	4.11	4.14	*****	0.0963	2.40	0.36
SEP 21-87	SEP 20-87	476.0	27.7	4.19	4.24	*****	0.0803	2.30	0.32
SEP 22-87	SEP 21-87	234.0	34.1	4.16	4.21	*****	0.0882	3.10	0.53
SEP 26-87	SEP 25-87	6.0	6.5	*****	5.25	*****	0.0232	0.85	0.08
SEP 28-87	SEP 27-87	270.0	28.0	4.18	4.30	*****	0.0746	2.80	0.45
SEP 30-87	SEP 29-87	852.0	36.6	4.16	4.23	*****	0.0866	5.00	0.54
OCT 1-87	SEP 30-87	397.0	9.9	4.67	4.87	*****	0.0429	0.75	0.05
OCT 2-87	OCT 1-87	337.0	41.6	6.48	7.02	*****	0.0224	7.80	1.65
OCT 3-87	OCT 2-87	68.0	10.9	*****	UG	*****	0.0170	1.55	0.12
OCT 6-87	OCT 5-87	4.0	*****	*****	7.11	*****	0.0391	0.45	0.32
OCT 8-87	OCT 7-87	570.0	10.7	D	4.67	*****	0.0391	0.45	0.32
OCT 10-87	OCT 9-87	112.0	56.5	4.18	4.31	*****	0.0895	6.85	2.25
OCT 13-87	OCT 12-87	14.0	D	*****	D	*****	0.0264	1.95	0.74
OCT 18-87	OCT 17-87	295.0	D	D	5.43	*****	D	3.10	0.64
OCT 19-87	OCT 18-87	*****	D	D	4.15	*****	D	0.0921	0.64
OCT 20-87	OCT 19-87	16.0	30.0	*****	4.28	*****	0.0804	2.90	0.79

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM				#05		PAGE : 9			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
JUL 14,87	JUL 13,87	0.12	0.10	<T	0.025	0.035	0.175	0.0069	
JUL 15,87	JUL 14,87	<T	<T	<T	0.005	0.040	0.030	0.0123	
JUL 20,87	JUL 19,87	0.12	0.05	<T	0.025	0.025	0.135	0.0236	
JUL 30,87	JUL 29,87	1.94	0.30	0.450	0.095	0.120	0.315	0.0141	
AUG 3,87	AUG 2,87	0.26	0.10	0.035	0.030	0.035	0.440	0.0955	
AUG 8,87	AUG 7,87	1.58	0.01	0.195	0.065	0.060	1.050	0.0759	
AUG 10,87	AUG 9,87	0.04	<W	0.005	<W	0.005	<T	0.0200	
AUG 15,87	AUG 14,87	1.34	D	0.205	D	0.300	1.150	0.3890	B
AUG 17,87	AUG 16,87	0.96	0.74	0.110	0.080	0.225	0.495	0.0396	
AUG 18,87	AUG 17,87	0.40	0.13	0.055	0.040	0.060	0.565	0.0257	
AUG 22,87	AUG 21,87	0.46	D	0.040	0.045	0.030	0.360	0.0490	
AUG 26,87	AUG 25,87	ILA	ILA	ILA	ILA	ILA	ILA	ILA	!
AUG 27,87	AUG 26,87	ILA	ILA	ILA	ILA	ILA	ILA	ILA	!
AUG 29,87	AUG 28,87	1.60	0.16	0.115	0.045	0.055	0.005	0.0331	
AUG 31,87	AUG 30,87	0.30	0.19	0.035	0.045	0.015	0.480	0.0589	
SEP 2,87	SEP 1,87	0.14	<W	0.010	0.030	0.025	0.070	0.0049	
SEP 9,87	SEP 8,87	0.12	<W	0.015	0.070	0.115	0.040	0.0017	UG
SEP 10,87	SEP 9,87	0.02	0.08	0.005	0.005	<T	0.100	0.0525	
SEP 12,87	SEP 11,87	0.10	ILA	0.015	0.045	<T	0.405	0.0708	
SEP 13,87	SEP 12,87	0.24	0.18	0.015	0.025	<T	0.465	0.1862	
SEP 15,87	SEP 14,87	0.30	0.25	0.030	0.045	D	0.625	0.0977	
SEP 17,87	SEP 16,87	0.30	0.15	0.030	0.065	0.080	0.070	0.1000	
SEP 19,87	SEP 17,87	0.42	0.12	0.035	0.040	0.035	0.450	0.1514	
SEP 19,87	SEP 18,87	0.24	0.06	0.020	0.035	0.050	0.070	0.0398	
SEP 20,87	SEP 19,87	<T	<T	0.005	0.025	0.020	0.125	0.0724	
SEP 21,87	SEP 20,87	0.06	0.02	0.005	0.025	<T	0.155	0.0575	
SEP 22,87	SEP 21,87	0.22	0.09	0.025	0.075	0.050	0.430	0.0617	
SEP 26,87	SEP 25,87	0.16	0.08	0.030	0.045	0.080	0.035	0.0056	
SEP 28,87	SEP 27,87	0.42	0.07	0.045	0.035	0.025	0.330	0.0501	
SEP 30,87	SEP 29,87	1.08	0.19	0.115	0.030	0.025	0.695	0.0589	
OCT 1,87	SEP 30,87	0.02	<T	0.005	0.005	<T	0.040	0.0135	
OCT 2,87	OCT 1,87	3.06	0.26	0.415	0.290	0.190	1.550	0.0011	UG
OCT 3,87	OCT 2,87	1.04	0.20	0.075	0.040	0.040	0.380	0.0001	UG
OCT 6,87	OCT 5,87	*****	*****	*****	*****	*****	*****	*****	
OCT 8,87	OCT 7,87	0.02	<W	0.005	<W	0.005	0.040	0.0214	
OCT 10,87	OCT 9,87	3.04	0.62	0.285	0.230	0.185	1.000	0.0490	
OCT 15,87	OCT 12,87	0.82	D	0.095	D	0.185	0.595	0.0037	
OCT 16,87	OCT 17,87	0.44	0.11	0.035	<T	0.025	0.435	0.0708	D
OCT 19,87	OCT 18,87	*****	*****	*****	*****	*****	*****	*****	
OCT 20,87	OCT 19,87	0.42	0.17	0.045	0.060	0.080	0.080	0.0525	!

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM										#05	PAGE : 10	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS	
				01-RAIN 02-SNOW 03-CORP/04-OTHER		01-STD. 02-NIPHER		02-APIOS 03-SPECIAL	01-MOE 03-AES		FIELD OFFICE	
OCT 21.87	OCT 20.87	830 900	1430 1900	1	1.8	1	48184	2	1	90		
OCT 23.87	OCT 22.87	900 900	1715 500	1	11.4	1	48185	2	1	100		
OCT 25.87	OCT 24.87	900 900	30 300	1	18.0	1	48186	2	1	94	N	
OCT 27.87	OCT 26.87	900 900	***	1	0.3	1	48189	2	1	208		
OCT 28.87	OCT 27.87	900 900	900 1630	1	8.4	1	48190	2	1	99	X	
OCT 29.87	OCT 28.87	900 900	700 900	1	***	2	48191	2	1	***	N	
OCT 30.87	OCT 29.87	900 900	900 1000	1	0.5	2	48192	2	1	209	N	
OCT 31.87	OCT 30.87	900 900	900 1130	1	0.3	2	48193	2	1	254	N	
NOV 3.87	NOV 2.87	900 900	400 900	1	6.4	2	48194	2	1	139	NC	
NOV 4.87	NOV 3.87	900 900	900 1330	1	2.4	2	48195	2	1	113	C	
NOV 5.87	NOV 4.87	900 900	1415 2300	1	8.6	2	48196	2	1	167	NHCH	
NOV 6.87	NOV 5.87	900 900	1130 1400	3	0.8	2	48197	2	1	94		
NOV 7.87	NOV 6.87	900 900	1330 2130	2	9.6	2	48198	2	1	109		
NOV 8.87	NOV 7.87	900 900	300 900	1	4.0	2	48199	2	1	101		
NOV 9.87	NOV 8.87	900 900	1600 200	1	10.8	2	48200	2	1	82		
NOV 12.87	NOV 11.87	900 900	730 900	2	1.0	2	48201	2	1	137	NH	
NOV 18.87	NOV 17.87	900 900	1300 100	1	4.8	2	48204	2	1	215	NH	
NOV 19.87	NOV 18.87	900 900	1600 2000	3	0.5	2	48205	2	1	100	JH	
NOV 20.87	NOV 19.87	900 900	1700 1900	3	2.3	2	48206	2	1	577	N	
NOV 24.87	NOV 23.87	900 900	1000 1030	1	0.2	2	48208	2	1	21	N	
NOV 26.87	NOV 25.87	900 900	900 1230	2	35.2	2	48210	2	1	96		
NOV 29.87	NOV 28.87	900 1000	100 1000	1	9.8	2	48211	2	1	89	X	
NOV 30.87	NOV 29.87	1000 900	1000 1830	1	6.8	2	48212	2	1	***		
DEC 1.87	NOV 30.87	900 910	1700 100	1	***	2	48213	2	1	***	E	
DEC 2.87	DEC 1.87	910 900	2000 2330	2	0.2	2	48214	2	1	143	N	
DEC 8.87	DEC 7.87	900 900	600 900	1	0.6	2	48217	2	1	111	N	
DEC 9.87	DEC 8.87	900 900	900 1300	1	5.4	2	48218	2	1	122	N	
DEC 10.87	DEC 9.87	900 900	930 1230	1	3.0	2	48220	2	1	***	X	
DEC 11.87	DEC 10.87	900 900	1230 1400	1	***	2	48221	2	1	111		
DEC 12.87	DEC 11.87	900 900	430 830	2	1.8	2	48222	2	1	78	NH	
DEC 13.87	DEC 12.87	900 900	430 730	2	6.6	2	48223	2	1	25	F	
DEC 16.87	DEC 15.87	900 900	900 1500	2	24.4	2	48225	2	1	***	E	
DEC 17.87	DEC 16.87	900 900	930 1130	2	0.2	2	48226	2	1	37	N	
DEC 19.87	DEC 18.87	900 900	2130 2230	2	2.4	2	48227	2	1	40	N	
DEC 20.87	DEC 19.87	900 900	100 900	3	17.1	2	48228	2	1	57		
DEC 21.87	DEC 20.87	900 900	900 1400	1	4.0	2	48229	2	1	111	N	
DEC 22.87	DEC 21.87	900 900	920 1030	2	0.1	*	48230	2	1	***	E	
DEC 23.87	DEC 22.87	900 900	1030 1210	2	1.0	2	48231	2	1	56		
DEC 25.87	DEC 24.87	900 900	1030 1500	1	10.2	2	48233	2	1	99		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM										805	PAGE : 11			
REMOVAL DATE	EXPOSURE DATE	VOLUME	CONDUCT.	PH FIELD	PH LAB	TOTAL H+ TO PHB.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L					
OCT 21-87	OCT 20-87	104.0	83.0	3.69	3.77	*****	0.2290	6.80	1.88					
OCT 23-87	OCT 22-87	736.0	24.0	4.25	4.33	*****	0.0746	1.60	0.75					
OCT 25-87	OCT 24-87	1096.0	36.0	4.05	4.16	*****	0.1070	3.00	0.93					
OCT 27-87	OCT 26-87	40.0	20.0	*****	4.36	*****	0.0734	2.10	0.43					
OCT 28-87	OCT 27-87	537.0	30.0	4.12	4.21	*****	0.0971	3.30	0.43					
OCT 29-87	OCT 28-87	3.0	*****	*****	*****	*****	*****	*****	*****					
OCT 30-87	OCT 29-87	67.0	43.0	*****	4.36	*****	0.0788	4.05	2.43					
OCT 31-87	OCT 30-87	49.0	83.0	*****	3.84	*****	0.1970	D	3.57					
NOV 3-87	NOV 2-87	440.0	45.0	4.02	4.11	*****	0.1100	3.45	0.66					
NOV 4-87	NOV 3-87	214.0	10.0	4.35	4.44	*****	0.0604	2.40	0.51					
NOV 5-87	NOV 4-87	627.0	4.0	4.63	4.80	*****	0.0361	D	0.30					
NOV 6-87	NOV 5-87	86.0	3.0	*****	5.04	*****	0.0256	1.05	0.07					
NOV 7-87	NOV 6-87	580.0	1LA	5.11	1LA	*****	1LA	1LA	1LA					
NOV 8-87	NOV 7-87	280.0	16.0	4.47	4.55	*****	0.0473	1.25	0.39					
NOV 9-87	NOV 8-87	703.0	19.0	4.36	4.41	*****	0.0598	1.55	0.85					
NOV 12-87	NOV 11-87	53.0	23.0	*****	4.43	*****	0.0835	2.20	0.55					
NOV 16-87	NOV 17-87	424.0	27.0	4.19	4.31	*****	0.0155	1.15	0.17					
NOV 19-87	NOV 18-87	69.0	8.0	*****	B 7.06	*****	0.0206	D	1.20					
NOV 20-87	NOV 19-87	148.0	18.0	5.61	6.43	*****	0.1180	D	7.25					
NOV 24-87	NOV 23-87	74.0	56.0	4.92	4.95	*****	0.0238	LG	2.00					
NOV 26-87	NOV 25-87	474.0	5.0	4.92	4.79	*****	0.0327	0.70	0.14					
NOV 29-87	NOV 28-87	608.0	6.5	4.71	4.79	*****	0.0642	1.25	0.41					
NOV 30-87	NOV 29-87	392.0	18.0	4.32	4.36	*****	*****	*****	*****					
DEC 1-87	NOV 30-87	7.0	*****	*****	*****	*****	0.0794	2.40	0.44					
DEC 2-87	DEC 1-87	*****	*****	*****	*****	*****	0.1040	2.85	0.49					
DEC 8-87	DEC 7-87	55.0	28.0	*****	4.31	*****	0.0769	2.50	0.21					
DEC 9-87	DEC 8-87	387.0	38.0	4.03	4.33	*****	0.1110	2.00	1.27					
DEC 10-87	DEC 9-87	236.0	26.0	4.29	4.33	*****	0.0297	0.85	0.25					
DEC 11-87	DEC 10-87	2.0	*****	*****	*****	*****	0.0700	0.85	0.57					
DEC 12-87	DEC 11-87	129.0	43.0	4.06	4.15	*****	0.1150	2.20	1.44					
DEC 13-87	DEC 12-87	334.0	8.5	4.82	4.97	*****	0.0517	0.95	0.31					
DEC 16-87	DEC 15-87	393.0	20.0	4.34	4.38	*****	0.0690	1.60	0.26					
DEC 17-87	DEC 16-87	*****	*****	*****	*****	*****	*****	*****	*****					
DEC 19-87	DEC 18-87	58.0	47.0	*****	4.11	*****	0.0931	1.30	1.21					
DEC 20-87	DEC 19-87	627.0	19.5	4.94	4.51	*****	0.0651	1.15	0.31					
DEC 21-87	DEC 20-87	286.0	20.5	4.31	4.35	*****	0.0951	1.15	0.31					
DEC 22-87	DEC 21-87	*****	*****	*****	*****	*****	0.0951	1.15	0.31					
DEC 23-87	DEC 22-87	36.0	33.0	*****	4.20	*****	0.0951	1.15	0.31					
DEC 25-87	DEC 24-87	648.0	18.0	4.36	4.42	*****	0.0951	1.15	0.31					

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APLOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM			#05	PAGE : 12									
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE LAB MG/L	H+				
OCT 21-87	OCT 20-87	0.58	0.36	0.070	0.050	0.035	0.595	0.1698					
OCT 23-87	OCT 22-87	0.20	0.12	<T	<T	0.010	0.250	0.0468					
OCT 25-87	OCT 24-87	0.34	0.22	0.025	0.045	<T	0.430	0.0692					
OCT 27-87	OCT 26-87	0.24	0.26	<T	0.020	0.040	0.125	0.0437					
OCT 28-87	OCT 27-87	0.16	0.19	<T	0.010	<T	0.305	0.0617					
OCT 29-87	OCT 28-87	*****	*****	*****	*****	*****	*****	*****					
OCT 30-87	OCT 29-87	2.24	0.73	0.325	D	0.210	1.100	0.0637					
OCT 31-87	OCT 30-87	1.86	0.56	0.260	0.160	0.130	1.400	0.1465					
NOV 3-87	NOV 2-87	0.10	0.19	<T	0.020	0.045	0.365	0.0776					
NOV 4-87	NOV 3-87	0.20	0.22	<T	0.030	0.050	0.465	0.0363					
NOV 5-87	NOV 4-87	<T	0.07	<T	0.020	0.025	0.360	0.0158					
NOV 6-87	NOV 5-87	0.14	0.01	<T	0.010	0.025	<T	0.0091					
NOV 7-87	NOV 6-87	ILA *****	ILA *****	ILA *****	ILA *****	ILA *****	ILA *****	ILA *****					
NOV 8-87	NOV 7-87	<T	0.01	<T	0.015	<T	0.200	0.0282					
NOV 9-87	NOV 8-87	<M	0.11	<T	0.015	0.010	0.285	0.0389					
NOV 12-87	NOV 11-87	0.30	0.15	0.030	0.040	0.080	0.450	0.0372					
NOV 18-87	NOV 17-87	0.12	0.29	<T	0.010	0.150	0.240	0.0490					
NOV 19-87	NOV 18-87	D	0.06	<T	0.010	<T	0.215	0.0001					
NOV 20-87	NOV 19-87	D	1.38	D	0.130	0.150	0.830	0.0004					
NOV 24-87	NOV 23-87	2.24	1.13	0.250	0.135	0.670	D	0.0603					
NOV 26-87	NOV 25-87	<T	0.05	<M	0.005	<T	0.025	0.0005					
NOV 29-87	NOV 28-87	<T	0.07	<T	0.010	<T	0.080	0.0162					
NOV 30-87	NOV 29-87	<T	0.05	0.305	<T	0.005	0.050	0.0437					
DEC 1-87	NOV 30-87	*****	*****	*****	*****	*****	*****	*****					
DEC 2-87	DEC 1-87	*****	*****	*****	*****	*****	*****	*****					
DEC 8-87	DEC 7-87	0.24	0.22	<T	0.075	0.100	0.060	0.0490					
DEC 9-87	DEC 8-87	0.12	0.46	0.030	<T	0.210	0.075	0.0676					
DEC 10-87	DEC 9-87	0.06	0.16	<T	0.010	0.055	0.075	0.0468					
DEC 11-87	DEC 10-87	*****	*****	*****	*****	*****	*****	*****					
DEC 12-87	DEC 11-87	0.14	0.18	<T	0.010	0.055	0.490	0.0708					
DEC 13-87	DEC 12-87	<T	0.06	<T	0.005	0.030	0.170	0.0107					
DEC 16-87	DEC 15-87	<T	0.15	<T	0.010	0.055	0.085	0.0617					
DEC 17-87	DEC 16-87	*****	*****	*****	*****	*****	*****	*****					
DEC 19-87	DEC 18-87	0.94	1.01	0.145	0.025	0.350	0.130	0.0776					
DEC 20-87	DEC 19-87	<T	0.08	<T	0.005	<T	0.060	0.0309					
DEC 21-87	DEC 20-87	<T	0.11	<M	0.005	<T	0.100	0.0447					
DEC 22-87	DEC 21-87	*****	*****	*****	*****	*****	*****	*****					
DEC 23-87	DEC 22-87	0.12	0.25	<T	0.010	0.045	0.490	0.0631					
DEC 25-87	DEC 24-87	<T	0.08	<M	0.005	<T	0.125	0.0380					

PART IV

NORTHWESTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAMSON/DAILY/AEROCHEN./6131

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 20,87	JAN 19,87	1600 1600	*****	2	5.8	2	31543	2	1	70	
JAN 22,87	JAN 21,87	1600 1600	*****	2	1.0	2	31545	2	1	93	
JAN 30,87	JAN 29,87	1600 1600	*****	2	6.0	2	31547	2	1	62	C
FEB 1,87	JAN 31,87	1600 1600	*****	2	0.6	2	31549	2	1	****	EX
FEB 2,87	FEB 1,87	1600 1600	*****	2	0.2	2	31551	2	1	****	EX
FEB 6,87	FEB 7,87	1600 1600	*****	2	0.2	2	31553	2	1	****	EX
FEB 10,87	FEB 9,87	1600 1600	*****	2	0.2	2	31555	2	1	****	EX
FEB 12,87	FEB 11,87	1600 1600	*****	2	3.0	2	31557	2	1	24	
FEB 16,87	FEB 15,87	1600 1600	*****	2	0.4	2	31559	2	1	66	H
MAR 1,87	FEB 28,87	1600 1600	*****	2	6.2	2	31561	2	1	52	H
MAR 2,87	MAR 1,87	1600 1600	*****	2	2.2	2	31563	2	1	53	C
MAR 26,87	MAR 25,87	1600 1600	*****	2	2.2	2	31566	2	1	61	
APR 27,87	APR 26,87	1600 1600	*****	1	5.8	1	31570	2	1	112	Q
MAY 6,87	MAY 7,87	1600 1600	*****	1	1.4	1	31572	2	1	64	H
MAY 12,87	MAY 11,87	1600 1600	*****	1	1.0	1	31574	2	1	84	Q
MAY 14,87	MAY 13,87	1600 1600	*****	1	1.8	1	31576	2	1	117	C
MAY 17,87	MAY 16,87	1600 1600	*****	1	11.0	1	31578	2	1	98	
MAY 19,87	MAY 18,87	1600 1600	*****	1	4.6	1	31580	2	1	86	
MAY 21,87	MAY 20,87	1600 1600	*****	1	16.6	1	31582	2	1	95	
MAY 22,87	MAY 21,87	1600 1600	*****	1	4.6	1	31586	2	1	23	N
MAY 25,87	MAY 24,87	1600 1600	*****	1	5.4	1	31588	2	1	42	N
JUN 2,87	JUN 1,87	1600 1600	*****	1	9.2	1	31590	2	1	93	
JUN 4,87	JUN 3,87	1600 1600	*****	1	9.4	1	31592	2	1	98	HCH
JUN 7,87	JUN 6,87	1600 1600	*****	1	4.4	1	31594	2	1	83	EG
JUN 22,87	JUN 21,87	1600 1600	*****	1	*****	1	31596	2	1	4	N
JUN 25,87	JUN 24,87	1600 1600	*****	1	*****	1	31597	2	1	7	NH
JUL 2,87	JUL 1,87	1600 1600	*****	1	34.4	1	31599	2	1	99	
JUL 3,87	JUL 2,87	1600 1600	*****	1	0.1	1	32819	2	1	****	EX
JUL 11,87	JUL 10,87	1600 1600	*****	1	4.2	1	32820	2	1	57	
JUL 12,87	JUL 11,87	1600 1600	*****	1	20.8	1	32822	2	1	101	
JUL 18,87	JUL 17,87	1600 1600	*****	1	1.2	1	32901	2	1	52	
JUL 18,87	JUL 17,87	1600 1600	*****	1	4.6	1	32903	2	1	99	
JUL 19,87	JUL 18,87	1600 1600	*****	1	16.4	1	32905	2	1	99	
JUL 22,87	JUL 21,87	1600 1600	*****	1	11.4	1	32907	2	1	94	
JUL 23,87	JUL 22,87	1600 1600	*****	1	2.0	1	32909	2	1	53	
JUL 29,87	JUL 28,87	1600 1600	*****	1	12.0	1	32911	2	1	94	
AUG 2,87	AUG 1,87	1600 1600	*****	1	39.0	1	32913	2	1	102	
AUG 3,87	AUG 2,87	1600 1600	*****	1	0.8	1	32915	2	1	****	EX
AUG 10,87	AUG 9,87	1600 1600	*****	1	16.8	1	32927	2	1	94	
AUG 12,87	AUG 11,87	1600 1600	*****	1	55.0	1	32929	2	1	88	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APLOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DANSON/DAILY/AEROCHEN./6131

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH6.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 20.87	JAN 19.87	263.0	7.7	*****	4.91	*****	0.0296	0.75	0.20
JAN 22.87	JAN 21.87	60.0	6.3	*****	5.04	*****	0.0250	0.30	0.15
JAN 30.87	JAN 29.87	240.0	10.4	*****	4.85	*****	0.0295	0.45	0.20
FEB 1.87	JAN 31.87	*****	*****	*****	*****	*****	*****	*****	*****
FEB 2.87	FEB 1.87	*****	*****	*****	*****	*****	*****	*****	*****
FEB 8.87	FEB 7.87	*****	*****	*****	*****	*****	*****	*****	*****
FEB 10.87	FEB 9.87	*****	*****	*****	*****	*****	*****	*****	*****
FEB 12.87	FEB 11.87	48.0	19.2	*****	5.85	*****	0.0229	2.25	0.97
FEB 16.87	FEB 15.87	17.0	7.6	*****	4.98	*****	0.0293	1.00	0.06
MAR 1.87	FEB 28.87	278.0	13.6	*****	4.74	*****	0.0360	0.90	0.55
MAR 2.87	MAR 1.87	76.0	7.3	*****	5.33	*****	0.0363	0.35	0.35
MAR 26.87	MAR 25.87	87.0	95.6	*****	3.69	*****	0.2430	11.20	0.40
APR 27.87	APR 26.87	418.0	17.8	*****	6.83	*****	0.0230	2.35	0.40
MAY 8.87	MAY 7.87	58.0	15.7	*****	6.31	*****	0.0241	2.50	0.50
MAY 12.87	MAY 11.87	54.0	16.7	*****	5.99	*****	0.0370	3.30	0.17
MAY 14.87	MAY 13.87	195.0	25.1	*****	6.80	*****	0.0223	3.50	0.87
MAY 17.87	MAY 16.87	635.0	8.2	*****	6.25	*****	0.0159	1.10	0.25
MAY 19.87	MAY 18.87	255.0	20.9	*****	4.27	*****	0.0611	2.55	0.10
MAY 21.87	MAY 20.87	1021.0	14.3	*****	4.69	*****	0.0356	1.45	0.30
MAY 25.87	MAY 24.87	146.0	8.2	*****	4.16	*****	0.0819	2.95	0.10
JUN 2.87	JUN 1.87	552.0	90.4	*****	7.48	*****	0.0304	3.45	0.45
JUN 4.87	JUN 3.87	594.0	7.1	*****	5.30	*****	0.0216	0.90	0.10
JUN 7.87	JUN 6.87	235.0	*****	*****	*****	*****	*****	*****	*****
JUN 22.87	JUN 21.87	273.0	41.0	*****	*****	*****	0.0349	6.15	0.90
JUN 25.87	JUN 24.87	665.0	6.5	*****	7.15	*****	0.0260	0.80	0.17
JUL 2.87	JUL 1.87	2189.0	5.5	*****	5.14	*****	0.0256	0.45	0.10
JUL 3.87	JUL 2.87	*****	*****	*****	*****	*****	*****	*****	*****
JUL 11.87	JUL 10.87	156.0	23.5	*****	4.55	*****	0.0571	2.65	0.64
JUL 12.87	JUL 11.87	1351.0	7.0	*****	4.93	*****	0.0309	0.70	0.16
JUL 17.87	JUL 16.87	40.0	14.0	*****	5.08	*****	0.0345	1.15	0.49
JUL 18.87	JUL 17.87	293.0	14.0	*****	4.77	*****	0.0459	1.80	0.37
JUL 19.87	JUL 18.87	1051.0	12.0	*****	4.70	*****	0.0501	1.60	0.16
JUL 23.87	JUL 22.87	691.0	7.0	*****	5.04	*****	0.0346	0.80	0.19
JUL 25.87	JUL 24.87	68.0	25.0	*****	4.95	*****	0.0403	4.15	1.11
JUL 29.87	JUL 28.87	727.0	6.5	*****	4.99	*****	0.0374	0.55	0.11
AUG 2.87	AUG 1.87	2566.0	8.0	*****	4.95	*****	0.0321	0.60	0.18
AUG 3.87	AUG 2.87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 10.87	AUG 9.87	1019.0	4.0	*****	5.78	*****	0.0200	0.55	0.09
AUG 12.87	AUG 11.87	3133.0	7.0	*****	*****	*****	0.0271	1.30	0.15

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAWSON/DAILY/AEROCHEM./6131

PAGE : 3

RENOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 20,87	JAN 19,87	<T	0.04	0.10	<T	0.010	<T	0.180
JAN 22,87	JAN 21,87	<T	0.06	0.17	<T	0.010	0.025	0.0091
JAN 30,87	JAN 29,87	<T	0.08	0.10	<T	0.005	0.035	0.0141
FEB 1,87	JAN 31,87	*****	*****	*****	*****	*****	*****	*****
FEB 2,87	FEB 1,87	*****	*****	*****	*****	*****	*****	*****
FEB 8,87	FEB 7,87	*****	*****	*****	*****	*****	*****	*****
FEB 10,87	FEB 9,87	*****	*****	*****	*****	*****	*****	*****
FEB 12,87	FEB 11,87	0.48	0.29	0.090	0.030	0.150	1.250	0.0014
FEB 16,87	FEB 15,87	0.22	0.14	0.025	0.020	0.095	0.080	0.0105
FEB 18,87	FEB 18,87	0.70	0.17	0.095	0.015	0.050	0.115	0.0182
MAR 2,87	MAR 1,87	<T	0.14	0.005	<M	0.100	0.035	0.0047
MAR 26,87	MAR 25,87	0.86	0.43	0.100	0.130	0.410	0.950	0.2042
APR 27,87	APR 26,87	0.64	0.15	0.130	0.235	0.140	1.050	0.0001
MAY 6,87	MAY 7,87	0.94	0.16	0.160	0.160	0.145	0.660	0.0005
MAY 12,87	MAY 11,87	0.60	0.26	0.120	0.545	0.160	0.930	0.0010
MAY 14,87	MAY 13,87	1.30	0.16	0.250	0.175	0.145	1.300	0.0002
MAY 17,87	MAY 16,87	0.26	0.05	0.055	0.025	<T	0.305	0.0036
MAY 19,87	MAY 18,87	0.30	0.01	0.030	<T	0.010	0.075	0.0537
MAY 21,87	MAY 20,87	<M	0.10	<T	0.005	0.055	0.410	0.0204
MAY 22,87	MAY 21,87	<M	0.02	<T	0.005	0.010	0.060	0.0692
MAY 25,87	MAY 24,87	0.12	<T	0.05	<T	0.020	2.500	0.0000
JUN 4,87	JUN 3,87	0.66	0.90	0.130	1.600	15.800	0.080	0.0050
JUN 7,87	JUN 6,87	0.12	0.10	0.015	<T	0.060	*****	*****
JUN 22,87	JUN 21,87	0.19	0.72	0.075	0.820	0.300	3.750	0.0001
JUN 25,87	JUN 24,87	0.28	<M	0.01	0.035	0.170	0.140	0.0062
JUL 2,87	JUL 1,87	0.06	0.04	<T	0.015	<T	0.055	0.0072
JUL 3,87	JUL 2,87	*****	*****	*****	*****	*****	*****	*****
JUL 11,87	JUL 10,87	0.50	0.26	0.055	0.090	0.165	0.465	0.0282
JUL 12,87	JUL 11,87	0.02	0.09	0.005	0.030	0.070	0.130	0.0117
JUL 17,87	JUL 16,87	0.46	0.13	0.065	0.075	0.065	0.083	0.0083
JUL 18,87	JUL 17,87	0.48	0.22	0.060	0.075	0.125	0.270	0.0170
JUL 19,87	JUL 18,87	0.24	0.08	0.025	0.030	0.070	0.160	0.0200
JUL 22,87	JUL 21,87	<T	0.10	0.015	0.025	<T	0.185	0.0091
JUL 23,87	JUL 22,87	D	1.16	0.39	0.190	B	0.370	0.0112
JUL 29,87	JUL 28,87	0.10	0.04	0.155	0.035	0.020	0.050	0.0102
AUG 2,87	AUG 1,87	<T	0.16	0.035	0.025	<T	0.155	0.0112
AUG 3,87	AUG 2,87	*****	*****	*****	*****	*****	*****	*****
AUG 10,87	AUG 9,87	0.12	<T	0.025	<T	0.020	0.115	0.0026
AUG 12,87	AUG 11,87	0.06	0.09	0.020	0.145	0.050	0.400	0.0017

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAMSON/DAILY/AEROCHEM./6131

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFECT- ENCY (%)	COMMENTS FIELD OFFICE
				01-BALIN		01-STD.		02-APIOS	03-SPECIAL		
				02-SHOW		02-NIPHER					
				03-COMP/04-OTHER							
AUG 15-87	AUG 14-87	1600 1600	####	1	12.8	1	31771	2	1	91	C
AUG 17-87	AUG 16-87	1600 1600	####	1	8.6	1	32931	2	1	90	HCN
AUG 18-87	AUG 17-87	1600 1600	####	1	4.2	1	32933	2	1	67	HM
AUG 20-87	AUG 19-87	1600 1600	####	1	4.0	1	32935	2	1	80	
AUG 21-87	AUG 20-87	1600 1600	####	1	3.8	1	32937	2	1	78	
AUG 26-87	AUG 25-87	1600 1600	####	1	5.2	1	32939	2	1	74	
SEP 2-87	SEP 1-87	1600 1600	####	1	7.0	1	32941	2	1	82	C
SEP 4-87	SEP 3-87	1600 1600	####	1	3.0	1	32943	2	1	83	H
SEP 5-87	SEP 4-87	1600 1600	####	1	24.8	1	32945	2	1	85	HM
SEP 7-87	SEP 6-87	1600 1600	####	1	0.1	1	32949	2	1	97	
SEP 8-87	SEP 7-87	1600 1600	####	1	12.0	1	32951	2	1	92	EH
SEP 10-87	SEP 9-87	1600 1600	####	1	3.0	1	32953	2	1	67	
SEP 11-87	SEP 10-87	1600 1600	####	1	9.0	1	32955	2	1	93	
SEP 13-87	SEP 12-87	1600 1600	####	1	6.6	1	32957	2	1	91	
SEP 14-87	SEP 13-87	1600 1600	####	1	0.2	1	32959	2	1	91	EH
SEP 19-87	SEP 18-87	1600 1600	####	1	14.6	1	32961	2	1	85	
SEP 20-87	SEP 19-87	1600 1600	####	1	1.0	1	32963	2	1	62	N
SEP 29-87	SEP 28-87	1600 1600	####	1	3.0	1	32967	2	1	69	
OCT 2-87	OCT 1-87	1600 1600	####	3	4.8	2	32969	2	1	83	D
OCT 6-87	OCT 5-87	1600 1600	####	3	4.2	2	32971	2	1	61	C
OCT 9-87	OCT 8-87	1600 1600	####	3	9.4	2	32973	2	1	89	
OCT 16-87	OCT 15-87	1600 1600	####	1	15.2	2	32975	2	1	83	C
OCT 20-87	OCT 19-87	1600 1600	####	2	4.2	2	32977	2	1	82	
OCT 27-87	OCT 26-87	1600 1600	####	3	3.8	2	32979	2	1	80	
OCT 28-87	OCT 27-87	1600 1600	####	2	0.1	2	32981	2	1	80	EH
NOV 4-87	NOV 3-87	1600 1600	####	2	2.4	2	32983	2	1	35	N
NOV 16-87	NOV 15-87	1600 1600	####	2	7.6	2	32985	2	1	86	
NOV 19-87	NOV 18-87	1600 1600	####	3	18.8	2	32987	2	1	38	N
NOV 23-87	NOV 22-87	1600 1600	####	2	3.0	2	32989	2	1	59	EFI
NOV 29-87	NOV 28-87	1600 1600	####	2	2.8	2	32991	2	1	79	
DEC 12-87	DEC 11-87	1600 1600	####	2	4.0	2	32993	2	1	48	N
DEC 13-87	DEC 12-87	1600 1600	####	2	0.2	2	32995	2	1	48	EH
DEC 14-87	DEC 13-87	1600 1600	####	3	0.4	2	32997	2	1	62	
DEC 15-87	DEC 14-87	1600 1600	####	2	1.2	2	32999	2	1	36	N
DEC 16-87	DEC 15-87	1600 1600	####	2	0.1	2	35101	2	1	36	EH
DEC 19-87	DEC 18-87	1600 1600	####	2	8.2	2	35103	2	1	51	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAMSON/DAILY/AEROCHEM./6131

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UHMO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 HG/L	TOTAL H+ GRAN HG/L	SULPHATE HG/L	NITRATE AS N HG/L
AUG 15.87	AUG 14.87	753.0	13.5	*****	4.55	*****	UG	1.55	0.23
AUG 17.87	AUG 16.87	499.0	4.0	*****	5.51	*****	0.0525	<T	0.05
AUG 18.87	AUG 17.87	182.0	2.0	*****	5.91	*****	0.0206	<T	0.02
AUG 20.87	AUG 19.87	206.0	24.0	*****	4.39	*****	0.0172	UG	0.57
AUG 21.87	AUG 20.87	191.0	11.0	*****	5.44	*****	0.0675	2.95	0.33
AUG 26.87	AUG 25.87	248.0	8.0	*****	4.72	*****	0.0241	2.15	0.06
SEP 2.87	SEP 1.87	370.0	5.5	*****	4.87	*****	0.0379	0.95	0.12
SEP 4.87	SEP 3.87	160.0	21.0	*****	5.35	*****	0.0231	0.50	0.95
SEP 5.87	SEP 4.87	1552.0	9.0	*****	5.95	*****	0.0245	2.05	0.12
SEP 7.87	SEP 6.87	*****	*****	*****	4.87	*****	0.0347	1.35	0.22
SEP 8.87	SEP 7.87	715.0	6.5	*****	*****	*****	*****	*****	*****
SEP 10.87	SEP 9.87	129.0	10.0	*****	5.07	*****	0.0260	0.60	0.12
SEP 11.87	SEP 10.87	538.0	11.0	*****	4.69	*****	0.0325	1.20	0.25
SEP 13.87	SEP 12.87	285.0	2.5	*****	5.50	*****	0.0242	1.50	0.41
SEP 14.87	SEP 13.87	*****	*****	*****	5.29	*****	0.0223	0.20	<T
SEP 19.87	SEP 18.87	802.0	17.5	*****	*****	*****	*****	*****	*****
SEP 20.87	SEP 19.87	40.0	7.0	*****	4.40	*****	0.0607	1.90	0.11
SEP 29.87	SEP 28.87	134.0	6.0	*****	4.88	*****	0.0314	0.70	0.08
OCT 2.87	OCT 1.87	258.0	1.0	*****	6.67	*****	0.0153	1.20	0.34
OCT 6.87	OCT 5.87	165.0	13.0	*****	6.13	*****	0.0157	1.20	0.16
OCT 9.87	OCT 8.87	542.0	13.0	*****	5.73	*****	0.0162	0.30	0.04
OCT 16.87	OCT 15.87	810.0	12.0	*****	7.20	*****	0.0153	1.65	0.44
OCT 20.87	OCT 19.87	221.0	7.5	*****	4.54	*****	0.0460	1.60	0.17
OCT 26.87	OCT 25.87	197.0	9.0	*****	5.14	*****	0.0240	0.65	0.24
OCT 27.87	OCT 26.87	*****	*****	*****	4.90	*****	0.0312	0.95	0.24
NOV 4.87	NOV 3.87	54.0	12.0	*****	*****	*****	*****	*****	*****
NOV 16.87	NOV 15.87	419.0	26.5	*****	4.79	*****	0.0360	1.80	0.19
NOV 19.87	NOV 18.87	466.0	7.5	*****	4.31	*****	0.0785	2.55	0.58
NOV 23.87	NOV 22.87	115.0	13.0	*****	5.11	*****	0.0402	0.90	0.26
NOV 29.87	NOV 28.87	142.0	19.0	*****	4.74	*****	0.0405	0.95	0.49
DEC 12.87	DEC 11.87	124.0	9.5	*****	4.41	*****	0.0632	1.80	0.24
DEC 13.87	DEC 12.87	*****	*****	*****	4.69	*****	0.0406	0.65	0.31
DEC 14.87	DEC 13.87	16.0	0.0	*****	*****	*****	*****	*****	*****
DEC 15.87	DEC 14.87	28.0	16.0	*****	4.82	*****	0.0309	0.30	0.25
DEC 16.87	DEC 15.87	*****	*****	*****	4.46	*****	0.0546	0.95	0.33
DEC 19.87	DEC 18.87	271.0	14.5	*****	4.59	*****	0.0453	0.55	0.44

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DAMSON/DAILY/AEROCHEM./6131

PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 15-87	AUG 14-87	0.18	0.10	0.025	<T	0.015	0.215	0.0282
AUG 17-87	AUG 16-87	0.02	<M	<T	<T	<T	0.020	0.0031
AUG 18-87	AUG 17-87	<M	0.06	<T	0.055	0.040	0.010	0.0012
AUG 20-87	AUG 19-87	1.02	0.16	0.005	0.030	0.050	0.425	0.0407
AUG 21-87	AUG 20-87	0.38	0.06	0.110	0.075	0.045	0.485	0.0036
AUG 26-87	AUG 25-87	<M	<M	<T	0.010	<T	0.015	0.0191
SEP 2-87	SEP 1-87	0.02	<T	<T	0.015	<T	0.190	0.0045
SEP 4-87	SEP 3-87	1.28	0.44	0.120	0.180	0.110	0.900	0.0011
SEP 5-87	SEP 4-87	0.34	<T	<T	0.010	<T	0.325	0.0011
SEP 7-87	SEP 6-87	*****	*****	*****	*****	*****	*****	*****
SEP 6-87	SEP 7-87	0.06	<M	<T	<T	<T	0.150	0.0085
SEP 10-87	SEP 9-87	0.18	<T	0.030	0.030	<T	0.290	0.0129
SEP 11-87	SEP 10-87	0.30	<T	0.075	0.045	0.025	0.535	0.0032
SEP 13-87	SEP 12-87	0.02	<M	<T	0.015	<T	0.010	0.0051
SEP 14-87	SEP 13-87	*****	*****	*****	*****	*****	*****	*****
SEP 19-87	SEP 18-87	0.14	0.03	<T	<T	<T	0.035	0.0398
SEP 20-87	SEP 19-87	*****	0.12	<T	0.030	<M	0.005	0.0132
SEP 29-87	SEP 28-87	0.94	0.06	0.180	0.110	0.045	0.105	0.0002
OCT 2-87	OCT 1-87	0.30	0.06	0.065	0.030	0.210	0.180	0.0007
OCT 6-87	OCT 5-87	0.10	0.03	<T	<T	<T	0.035	0.0019
OCT 9-87	OCT 8-87	1.46	0.08	0.245	0.080	0.015	0.495	0.0001
OCT 16-87	OCT 15-87	0.18	<T	0.020	<T	<T	0.115	0.0288
OCT 20-87	OCT 19-87	0.10	0.04	<T	<T	0.010	0.175	0.0072
OCT 26-87	OCT 25-87	0.18	0.06	<T	<T	0.065	0.125	0.0126
OCT 27-87	OCT 26-87	*****	*****	*****	*****	*****	*****	*****
NOV 4-87	NOV 3-87	0.20	0.08	0.030	0.060	0.075	0.245	0.0162
NOV 16-87	NOV 15-87	0.18	0.08	<T	<T	0.035	0.385	0.0490
NOV 19-87	NOV 18-87	<T	<T	<M	<M	<T	0.315	0.0078
NOV 23-87	NOV 22-87	0.22	0.04	0.005	0.020	0.020	0.300	0.0182
NOV 29-87	NOV 28-87	0.10	0.07	0.035	<T	0.045	0.060	0.0389
NOV 29-87	NOV 28-87	<T	0.05	<M	<M	0.040	0.105	0.0204
DEC 12-87	DEC 11-87	0.04	0.07	<T	0.010	0.030	0.105	0.0204
DEC 13-87	DEC 12-87	*****	*****	*****	*****	*****	*****	*****
DEC 14-87	DEC 13-87	*****	0.12	*****	*****	*****	0.015	0.0151
DEC 15-87	DEC 14-87	*****	0.07	*****	*****	*****	<T	0.0347
DEC 16-87	DEC 15-87	*****	*****	*****	*****	*****	*****	*****
DEC 19-87	DEC 18-87	<T	0.07	<T	0.005	0.035	0.110	0.0257

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM #16

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-STD.		02-APIOS	01-HOE		
				02-SNOW		02-NIPHER		03-SPECIAL	03-AES		
				03-COMP/04-OTHER							
JAN 1,87	DEC 31,86	800	800	3	3.2	2	32394	2	1	69	
JAN 2,87	JAN 1,87	800	800	2	0.1	2	32395	2	1	MMHH	EK
JAN 7,87	JAN 5,87	800	800	2	0.7	2	32396	2	1	75	Z
JAN 10,87	JAN 9,87	1000	1000	2	0.1	2	32397	2	1	31	N
JAN 11,87	JAN 10,87	1000	1000	2	0.1	2	32398	2	1	MMHH	EK
JAN 15,87	JAN 14,87	800	800	2	0.1	2	32399	2	1	MMHH	EK
JAN 16,87	JAN 15,87	800	800	2	0.1	2	32400	2	1	MMHH	EK
JAN 17,87	JAN 16,87	800	1200	2	0.1	2	32401	2	1	MMHH	EK
JAN 18,87	JAN 17,87	1200	1200	2	0.1	2	32402	2	1	46	E
JAN 20,87	JAN 19,87	800	800	2	3.4	2	32403	2	1	77	Q
JAN 22,87	JAN 21,87	800	800	2	4.5	2	32404	2	1	45	C
JAN 27,87	JAN 26,87	800	800	2	0.1	2	32405	2	1	MMHH	EK
JAN 31,87	JAN 29,87	800	800	2	5.5	2	32408	2	1	75	Y2
FEB 3,87	FEB 2,87	800	800	2	7.8	2	32410	2	1	80	HCM
FEB 4,87	FEB 3,87	800	800	2	0.3	2	32411	2	1	10	N
FEB 7,87	FEB 6,87	800	800	3	0.2	2	32412	2	1	72	HY2
FEB 15,87	FEB 13,87	800	800	2	1.5	2	32414	2	1	75	HY2
FEB 23,87	FEB 21,87	730	730	2	3.5	2	32419	2	1	149	N
FEB 24,87	FEB 23,87	730	730	2	0.5	2	32420	2	1	47	NHCHY2
MAR 2,87	FEB 28,87	800	800	2	12.2	2	32421	2	1	140	NHC
MAR 12,87	MAR 11,87	800	800	2	0.1	2	32424	2	1	85	
MAR 14,87	MAR 13,87	800	900	1	0.2	2	32425	2	1	136	C
MAR 23,87	MAR 22,87	800	100	1	1.8	2	32426	2	1	405	N
MAR 24,87	MAR 23,87	900	2300	1	0.1	2	32427	2	1	249	N
MAR 27,87	MAR 26,87	800	800	2	0.2	2	32428	2	1	218	N
MAR 28,87	MAR 27,87	800	830	2	0.1	2	32429	2	1	514	C
MAR 29,87	MAR 28,87	800	1100	1	0.1	2	32432	2	1	95	B
APR 21,87	APR 20,87	730	1550	1	4.2	1	32433	2	1	97	Q
APR 25,87	APR 24,87	500	600	1	1.8	1	32434	2	1	54	CQ
APR 27,87	APR 26,87	730	1915	1	0.8	1	32436	2	1	MMHH	EK
MAY 10,87	MAY 9,87	730	1500	1	0.1	1	32437	2	1	231	NZ
MAY 13,87	MAY 12,87	730	1645	1	0.1	1	32439	2	1	MMHH	IFKE
MAY 16,87	MAY 15,87	730	800	1	2.6	1	32440	2	1	MMHH	IFKE
MAY 17,87	MAY 16,87	800	830	1	29.5	1	32441	2	1	32	FEG
MAY 18,87	MAY 17,87	830	805	1	22.2	1	32442	2	1	MMHH	EK
MAY 22,87	MAY 21,87	800	800	3	41.0	1	32443	2	1	87	
MAY 23,87	MAY 22,87	800	730	1	0.1	1	32444	2	1	66	
MAY 26,87	MAY 25,87	800	800	1	3.6	1	32445	2	1	29	C
MAY 27,87	MAY 26,87	800	730	1	0.8	1	32446	2	1	101	N
MAY 31,87	MAY 30,87	800	800	1	1.0	1	32447	2	1		
JUN 2,87	JUN 1,87	730	1625	1	20.2	1	32448	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM

#16

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PHB.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 1,87	DEC 31,86	142.0	9.7	*****	5.34	*****	0.0243	1.35	0.46
JAN 2,87	JAN 1,87	*****	*****	*****	*****	*****	*****	*****	*****
JAN 7,87	JAN 5,87	34.0	40.8	*****	4.32	*****	0.0800	5.45	UG
JAN 10,87	JAN 9,87	2.0	*****	*****	*****	*****	*****	*****	*****
JAN 11,87	JAN 10,87	*****	*****	*****	*****	*****	*****	*****	*****
JAN 15,87	JAN 14,87	*****	*****	*****	*****	*****	*****	*****	*****
JAN 16,87	JAN 15,87	*****	*****	*****	*****	*****	*****	*****	*****
JAN 17,87	JAN 16,87	*****	*****	*****	*****	*****	*****	*****	*****
JAN 18,87	JAN 17,87	3.0	*****	*****	*****	*****	*****	*****	*****
JAN 20,87	JAN 19,87	168.0	6.4	*****	4.82	*****	0.0254	0.30	0.17
JAN 22,87	JAN 21,87	132.0	5.9	*****	4.89	*****	0.0241	0.20	0.17
JAN 27,87	JAN 26,87	*****	*****	*****	*****	*****	*****	*****	*****
JAN 31,87	JAN 29,87	267.0	9.4	*****	4.82	*****	0.0297	0.70	0.26
FEB 3,87	FEB 2,87	402.0	4.2	*****	5.58	*****	0.0170	0.50	0.08
FEB 4,87	FEB 3,87	2.0	*****	*****	*****	*****	*****	*****	*****
FEB 7,87	FEB 6,87	*****	*****	*****	*****	*****	*****	*****	*****
FEB 15,87	FEB 13,87	70.0	21.9	*****	4.89	*****	0.0362	3.75	0.58
FEB 23,87	FEB 21,87	31.3	*****	*****	4.31	*****	0.0685	3.15	1.14
FEB 24,87	FEB 23,87	170.0	31.3	*****	3.78	*****	0.1710	1.65	1.93
FEB 28,87	FEB 28,87	48.0	72.3	*****	5.39	*****	0.0169	0.30	0.04
MAR 2,87	FEB 28,87	374.0	3.7	*****	5.57	*****	0.0175	0.05	0.18
MAR 12,87	MAR 11,87	9.0	5.2	*****	4.81	*****	0.0300	0.70	0.22
MAR 14,87	MAR 13,87	11.0	9.4	*****	4.15	*****	0.0844	3.35	0.32
MAR 23,87	MAR 22,87	157.0	30.8	*****	4.15	*****	0.1970	6.35	1.09
MAR 24,87	MAR 23,87	26.0	77.3	*****	3.76	*****	0.2520	9.80	1.23
MAR 27,87	MAR 26,87	32.0	95.0	*****	3.67	*****	0.0368	1.05	0.15
MAR 28,87	MAR 27,87	14.0	12.0	*****	4.64	*****	0.0167	1.70	0.40
APR 21,87	APR 20,87	33.0	14.6	*****	6.87	*****	0.0208	3.55	0.75
APR 25,87	APR 24,87	258.0	21.9	*****	6.70	*****	0.0174	1.95	0.52
APR 27,87	APR 26,87	112.0	20.9	*****	7.18	*****	0.0181	3.50	1.10
MAY 10,87	MAY 9,87	28.0	48.0	*****	7.52	*****	0.0290	1.85	0.40
MAY 13,87	MAY 12,87	*****	*****	*****	4.97	*****	*****	*****	*****
MAY 16,87	MAY 15,87	386.0	12.8	*****	*****	*****	*****	*****	*****
MAY 17,87	MAY 16,87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 18,87	MAY 17,87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 22,87	MAY 21,87	842.0	*****	*****	*****	*****	*****	*****	*****
MAY 23,87	MAY 22,87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 26,87	MAY 25,87	203.0	22.5	*****	4.27	*****	0.0635	2.15	0.40
MAY 27,87	MAY 26,87	34.0	26.6	*****	*****	*****	*****	2.45	0.55
MAY 27,87	MAY 26,87	19.0	10.7	*****	*****	*****	*****	1.15	0.35
MAY 31,87	MAY 30,87	*****	*****	*****	*****	*****	*****	*****	*****
JUN 2,87	JUN 1,87	1313.0	8.1	*****	5.47	*****	0.0202	0.95	0.20

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM										#16	PAGE : 3	
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L				
JAN 1-87	DEC 31-86	0.34	0.06	0.040	<T	0.025	0.040	0.525	0.0046			
JAN 2-87	JAN 1-87	*****	*****	0.030	*****	*****	*****	*****	*****			
JAN 7-87	JAN 5-87	0.36	0.15	0.030	0.030	0.005	0.005	2.350	0.0479			
JAN 10-87	JAN 9-87	*****	*****	*****	*****	*****	*****	*****	*****			
JAN 11-87	JAN 10-87	*****	*****	*****	*****	*****	*****	*****	*****			
JAN 15-87	JAN 14-87	*****	*****	*****	*****	*****	*****	*****	*****			
JAN 16-87	JAN 15-87	*****	*****	*****	*****	*****	*****	*****	*****			
JAN 17-87	JAN 16-87	*****	*****	*****	*****	*****	*****	*****	*****			
JAN 18-87	JAN 17-87	*****	*****	*****	*****	*****	*****	*****	*****			
JAN 20-87	JAN 19-87	<T	<T	<T	0.005	<T	0.010	0.035	0.0151			
JAN 22-87	JAN 21-87	<T	0.06	<T	0.005	<T	0.015	0.025	0.0129			
JAN 27-87	JAN 26-87	0.02	0.12	0.060	<T	0.010	0.045	0.070	0.0151			
JAN 31-87	JAN 29-87	0.26	0.01	<T	0.005	<W	0.005	0.120	0.0026			
FEB 3-87	FEB 2-87	<T	<W	<T	0.005	*****	*****	*****	*****			
FEB 4-87	FEB 3-87	*****	*****	*****	*****	*****	*****	*****	*****			
FEB 7-87	FEB 6-87	*****	*****	*****	*****	*****	*****	*****	*****			
FEB 15-87	FEB 13-87	0.40	0.18	0.080	<T	0.025	0.060	1.250	0.0129			
FEB 23-87	FEB 21-87	0.36	0.15	0.055	<T	0.015	0.020	1.350	0.0490			
FEB 24-87	FEB 23-87	0.18	0.39	0.035	<T	0.010	0.060	0.230	0.1660			
MAR 2-87	FEB 28-87	<W	<W	0.005	<W	0.005	<W	0.005	0.0061			
MAR 12-87	MAR 11-87	0.14	0.10	0.020	<T	0.020	0.025	0.015	0.0027			
MAR 14-87	MAR 13-87	0.14	0.12	0.020	<T	0.010	0.025	0.035	0.0155			
MAR 23-87	MAR 22-87	0.20	0.13	0.035	<T	0.020	0.065	0.230	0.0708			
MAR 24-87	MAR 23-87	0.64	0.40	0.100	0.055	0.190	0.710	0.710	0.1738			
MAR 27-87	MAR 26-87	0.64	0.54	0.105	0.065	0.230	0.730	0.730	0.2138			
MAR 28-87	MAR 27-87	0.08	0.09	0.010	0.025	0.035	0.005	0.0029	0.0029			
APR 21-87	APR 20-87	0.60	0.18	0.115	0.030	0.120	0.690	0.0001	0.0001			
APR 25-87	APR 24-87	0.16	0.09	0.030	0.030	0.015	2.100	0.0002	0.0002			
APR 27-87	APR 26-87	0.62	0.17	0.190	U	0.090	1.450	0.0001	0.0001			
MAY 10-87	MAY 9-87	2.12	0.29	0.510	U	2.580	2.900	0.0000	0.0000			
MAY 13-87	MAY 12-87	*****	*****	*****	*****	*****	*****	*****	*****			
MAY 16-87	MAY 15-87	0.16	0.05	0.020	U	0.110	0.620	0.0107	0.0107			
MAY 17-87	MAY 16-87	*****	*****	*****	*****	*****	*****	*****	*****			
MAY 18-87	MAY 17-87	*****	*****	*****	*****	*****	*****	*****	*****			
MAY 22-87	MAY 21-87	*****	*****	*****	*****	*****	*****	*****	*****			
MAY 23-87	MAY 22-87	*****	*****	*****	*****	*****	*****	*****	*****			
MAY 26-87	MAY 25-87	<T	0.08	<T	0.045	<W	0.005	0.280	0.0537			
MAY 27-87	MAY 26-87	*****	0.10	<T	0.045	<W	0.005	0.425	0.0537			
MAY 31-87	MAY 30-87	0.22	0.10	0.060	0.100	0.060	0.205	0.205	0.0537			
JUN 2-87	JUN 1-87	0.08	0.05	0.010	0.035	0.010	0.375	0.375	0.0034			

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEN

#16

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFECTI- ENCY	COMMENTS FIELD OFFICE
				01-RAIN	01-STD.	02-NIPHER		02-APTOS	03-AES	(%)	
				02-SNOW	03-COMP/04-OTHER						
JUN 3-87	JUN 2-87	730 730	1630 1730	1	1.0	1	32468	2	1	63	EG
JUN 4-87	JUN 3-87	730 800	900 1000	1	0.6	1	32469	2	1	15	EG
JUN 5-87	JUN 4-87	800 800	930 1200	1	1.2	1	32450	2	1	35	N
JUN 7-87	JUN 6-87	800 800	1200 1315	1	12.0	1	32451	2	1	97	
JUN 11-87	JUN 10-87	730 730	1630 1930	1	6.0	1	32452	2	1	80	
JUN 23-87	JUN 22-87	730 730	1745 1800	1	5.8	1	32454	2	1	97	
JUN 26-87	JUN 25-87	730 800	1530 1550	1	2.0	1	32455	2	1	70	A
JUN 27-87	JUN 26-87	800 800	1245 1500	1	4.8	1	32456	2	1	94	CM
JUN 2-87	JUN 1-87	800 800	600 630	1	5.0	1	32457	2	1	72	H
JUN 3-87	JUN 2-87	800 800	1400 1420	1	1.8	1	32458	2	1	67	C
JUN 6-87	JUN 5-87	800 800	*****	1	8.8	1	32459	2	1	99	
JUN 8-87	JUN 7-87	800 730	2100 2130	1	0.1	1	32460	2	1	****	E
JUN 11-87	JUN 10-87	730 830	300 400	1	9.6	1	32461	2	1	58	
JUN 12-87	JUN 11-87	830 830	400 600	1	13.6	1	32462	2	1	61	
JUN 13-87	JUN 12-87	830 700	*****	1	0.8	1	32463	2	1	23	NHCH
JUN 15-87	JUN 13-87	800 230	630	1	14.4	1	32464	2	1	56	CHY2
JUN 16-87	JUN 15-87	800 800	200 400	1	3.0	1	32465	2	1	44	N
JUN 17-87	JUN 16-87	800 800	*****	1	0.6	1	32466	2	1	7	N
JUN 18-87	JUN 17-87	800 800	1630 1700	1	14.6	1	32467	2	1	55	E
JUN 19-87	JUN 18-87	800 800	2130 2230	1	16.8	1	32468	2	1	67	
JUN 20-87	JUN 19-87	800 730	1300 1500	1	2.0	1	32469	2	1	39	N
JUN 22-87	JUN 21-87	730 730	200 600	1	10.0	1	32470	2	1	20	N
JUN 23-87	JUN 22-87	730 730	300 600	1	62.0	1	32471	2	1	60	N
JUN 24-87	JUN 23-87	730 800	*****	1	9.0	1	32472	2	1	47	NC
AUG 1-87	JUL 31-87	800 830	300 600	1	69.2	1	32473	2	1	58	
AUG 2-87	AUG 1-87	830 830	900 1100	1	3.0	1	32474	2	1	50	C
AUG 3-87	AUG 2-87	830 800	245 300	1	7.2	1	32475	2	1	38	N
AUG 10-87	AUG 9-87	700 700	1000 1100	1	5.2	1	32476	2	1	37	NH
AUG 12-87	AUG 11-87	700 800	1230 1300	1	5.0	1	32477	2	1	60	
AUG 13-87	AUG 12-87	800 800	1000 1200	1	13.6	1	32478	2	1	49	NH
AUG 15-87	AUG 14-87	800 800	2300 400	1	7.0	1	32479	2	1	56	
AUG 16-87	AUG 15-87	800 800	*****	1	2.8	1	32480	2	1	76	
AUG 17-87	AUG 16-87	800 730	1400 1600	1	1.4	1	32481	2	1	89	C
AUG 18-87	AUG 17-87	730 730	630 730	1	2.0	1	32482	2	1	50	
AUG 19-87	AUG 18-87	800 730	800 830	1	7.6	1	32485	2	1	60	
AUG 20-87	AUG 19-87	730 730	500 530	1	3.4	1	32486	2	1	90	
AUG 21-87	AUG 20-87	730 730	500 600	1	1.2	1	32487	2	1	65	H
AUG 22-87	AUG 21-87	730 730	500 600	1	3.4	1	32488	2	1	100	
AUG 23-87	AUG 22-87	800 800	1200 1300	1	24.0	4	32489	2	1	9	NH
AUG 26-87	AUG 25-87	730 730	1800 730	1	6.4	1	32490	2	1	87	HC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APLOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEN #16

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT, UMHO/CH	PH FIELD	PH LAB	TOTAL H+ TO PH0.3 HG/L	TOTAL H+ GRAN HG/L	SULPHATE HG/L	NITRATE AS N HG/L
JUN 3,87	JUN 2,87	41.0	*****	*****	*****	*****	*****	*****	*****
JUN 4,87	JUN 3,87	6.0	*****	*****	*****	*****	*****	*****	*****
JUN 5,87	JUN 4,87	27.0	14.8	*****	5.03	*****	0.0208	2.60	0.40
JUN 7,87	JUN 6,87	751.0	10.7	*****	6.73	*****	0.0175	1.20	0.35
JUN 11,87	JUN 10,87	341.0	13.3	*****	4.59	*****	0.0368	4.90	0.25
JUN 23,87	JUN 22,87	363.0	36.0	*****	4.18	*****	0.1000	4.90	0.58
JUN 26,87	JUN 25,87	91.0	14.5	*****	4.79	*****	0.0385	1.55	0.37
JUN 27,87	JUN 26,87	291.0	3.0	*****	5.30	*****	0.0186	0.15	<T
JUL 2,87	JUL 1,87	233.0	6.5	*****	5.33	*****	0.0221	0.60	0.03
JUL 3,87	JUL 2,87	78.0	3.0	*****	5.13	*****	0.0245	0.30	0.14
JUL 6,87	JUL 5,87	559.0	5.0	*****	5.26	*****	0.0218	0.50	0.07
JUL 8,87	JUL 7,87	*****	*****	*****	*****	*****	*****	*****	*****
JUL 11,87	JUL 10,87	359.0	9.5	*****	5.22	*****	0.0252	1.00	0.35
JUL 12,87	JUL 11,87	537.0	5.5	*****	5.53	*****	0.0211	0.55	0.22
JUL 13,87	JUL 12,87	12.0	2.5	*****	5.80	*****	0.0161	0.10	<T
JUL 15,87	JUL 13,87	526.0	3.0	*****	5.33	*****	0.0201	0.20	<T
JUL 16,87	JUL 15,87	86.0	17.0	*****	4.66	*****	0.0483	1.80	0.54
JUL 17,87	JUL 16,87	3.0	*****	*****	*****	*****	*****	*****	*****
JUL 18,87	JUL 17,87	520.0	8.0	*****	5.14	*****	0.0256	D	0.27
JUL 19,87	JUL 18,87	727.0	6.0	*****	5.36	*****	0.0210	D	0.75
JUL 20,87	JUL 19,87	50.0	7.0	*****	5.10	*****	0.0281	0.80	0.17
JUL 21,87	JUL 20,87	134.0	7.0	*****	5.06	*****	0.0260	0.45	0.27
JUL 23,87	JUL 22,87	2415.0	10.5	*****	5.12	*****	0.0266	1.85	0.21
JUL 24,87	JUL 23,87	274.0	6.0	*****	5.24	*****	0.0236	0.40	0.13
AUG 1,87	AUG 31,87	2607.0	10.0	*****	6.41	*****	0.0170	1.70	0.40
AUG 2,87	AUG 1,87	97.0	11.5	*****	4.84	*****	0.0409	2.30	0.20
AUG 3,87	AUG 2,87	179.0	9.0	*****	5.99	*****	0.0192	0.75	0.20
AUG 10,87	AUG 9,87	124.0	6.0	*****	5.16	*****	0.0254	1.40	0.20
AUG 12,87	AUG 11,87	193.0	15.5	*****	6.49	*****	0.0201	3.60	0.46
AUG 13,87	AUG 12,87	434.0	11.0	*****	5.16	*****	0.0298	1.95	0.23
AUG 15,87	AUG 14,87	253.0	10.0	*****	4.75	*****	0.0364	1.05	0.12
AUG 16,87	AUG 15,87	137.0	10.0	*****	5.13	*****	0.0262	1.20	0.35
AUG 17,87	AUG 16,87	80.0	13.0	*****	4.51	*****	0.0570	1.60	0.54
AUG 18,87	AUG 17,87	65.0	8.0	*****	4.94	*****	0.0301	0.85	0.10
AUG 19,87	AUG 18,87	294.0	7.5	*****	4.96	*****	0.0285	0.75	0.11
AUG 20,87	AUG 19,87	197.0	17.5	*****	4.60	*****	0.0481	2.00	0.32
AUG 21,87	AUG 20,87	50.0	13.5	*****	5.33	*****	0.0260	1.65	0.53
AUG 22,87	AUG 21,87	218.0	28.0	*****	4.43	*****	0.0454	3.35	0.64
AUG 23,87	AUG 22,87	144.0	5.0	*****	5.05	*****	0.0300	0.60	<T
AUG 26,87	AUG 25,87	361.0	3.0	*****	5.91	*****	0.0198	D	0.35

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEN				#16	PAGE : 6			
REMOVAL DATE	EXPOSURE DATE	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM AS N	FREE H+ LAB
		MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
JUN 3-87	JUN 3-87	*****	*****	*****	*****	*****	*****	*****
JUN 2-87	JUN 2-87	*****	*****	*****	*****	*****	*****	*****
JUN 5-87	JUN 4-87	0.76	0.10	0.155	0.075	0.220	0.245	0.0093
JUN 7-87	JUN 5-87	0.22	0.10	0.045	0.035	<M	0.755	0.0002
JUN 11-87	JUN 10-87	0.50	0.10	0.040	0.035	<M	0.215	0.0257
JUN 13-87	JUN 12-87	0.28	0.14	0.070	0.035	<M	0.630	0.0661
JUN 15-87	JUN 14-87	0.14	<M	0.040	0.015	0.035	0.395	0.0162
JUN 19-87	JUN 18-87	0.02	0.01	0.005	<M	0.010	0.005	0.0042
JUN 21-87	JUN 20-87	<M	0.05	0.025	<M	0.025	0.230	0.0047
JUL 2-87	JUL 1-87	0.08	0.01	<M	<M	0.020	0.085	0.0074
JUL 5-87	JUL 4-87	0.04	<M	<M	0.020	0.020	0.095	0.0055
JUL 6-87	JUL 5-87	0.04	0.04	0.005	0.040	0.020	0.095	0.0055
JUL 8-87	JUL 7-87	*****	*****	*****	*****	*****	*****	*****
JUL 11-87	JUL 10-87	0.20	0.10	0.030	0.030	0.065	0.350	0.0060
JUL 12-87	JUL 11-87	0.12	0.07	0.015	<M	0.030	0.270	0.0030
JUL 13-87	JUL 12-87	0.04	0.21	0.005	0.055	0.070	0.005	0.0013
JUL 15-87	JUL 14-87	<M	<M	<M	0.005	0.005	0.010	0.0047
JUL 16-87	JUL 15-87	0.46	0.58	0.105	0.030	0.025	0.325	0.0219
JUL 17-87	JUL 16-87	*****	*****	*****	*****	*****	*****	*****
JUL 18-87	JUL 17-87	0.18	0.06	<M	0.035	<M	0.275	0.0072
JUL 19-87	JUL 18-87	0.12	0.05	<M	0.010	0.025	0.165	0.0044
JUL 20-87	JUL 19-87	<M	0.05	<M	0.025	0.035	0.205	0.0079
JUL 22-87	JUL 21-87	0.12	0.06	0.025	0.025	0.050	0.135	0.0087
JUL 23-87	JUL 22-87	0.16	0.06	0.030	0.025	0.030	0.500	0.0076
JUL 24-87	JUL 23-87	<M	<M	<M	0.010	0.025	0.110	0.0059
AUG 1-87	JUL 31-87	0.36	0.08	0.060	0.045	0.035	0.650	0.0004
AUG 2-87	AUG 1-87	0.38	0.30	0.050	0.045	0.035	0.775	0.0145
AUG 3-87	AUG 2-87	<M	0.05	<M	0.025	<M	0.390	0.0010
AUG 10-87	AUG 9-87	0.36	0.06	0.085	0.070	<M	0.230	0.0069
AUG 12-87	AUG 11-87	0.76	0.12	D	0.070	<M	1.000	0.0003
AUG 13-87	AUG 12-87	0.40	<M	<M	0.025	0.025	0.475	0.0072
AUG 15-87	AUG 14-87	0.12	<M	<M	0.010	<M	0.095	0.0178
AUG 16-87	AUG 15-87	0.16	0.09	<M	0.025	0.030	0.515	0.0074
AUG 17-87	AUG 16-87	0.24	0.13	0.030	0.045	0.035	0.305	0.0309
AUG 18-87	AUG 17-87	<M	0.06	<M	0.025	<M	0.065	0.0115
AUG 19-87	AUG 18-87	0.02	<M	<M	0.010	<M	0.130	0.0110
AUG 20-87	AUG 19-87	0.24	0.04	0.055	0.025	0.010	0.350	0.0251
AUG 21-87	AUG 20-87	0.44	0.10	0.085	0.045	0.015	0.570	0.0047
AUG 22-87	AUG 21-87	0.52	0.16	0.050	0.045	0.060	0.760	0.0372
AUG 23-87	AUG 22-87	0.02	<M	<M	0.010	<M	0.025	0.0089
AUG 26-87	AUG 25-87	0.08	0.01	<M	0.020	<M	0.080	0.0012

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM										#16	PAGE : 7		
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS		
				03-COMP/04-OTHER		01-STD.		02-APLOS	01-MOE				
				02-SNOH		02-NIPHER		03-SPECIAL	03-AES				

[illegible]

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM				#16					PAGE : 9
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
AUG 27-87	AUG 26-87	<T	<T	<T	<T	0.025	!IS	0.0063	
AUG 30-87	AUG 29-87	<T	<M	<T	0.015	<T	!IS	0.0012	
AUG 31-87	AUG 30-87	<T	0.04	<T	0.015	0.005	!IS	0.0051	
SEP 2-87	SEP 1-87	<T	0.05	<T	0.130	U	D	0.0004	
SEP 4-87	SEP 3-87	D	0.13	0.130	0.070	U	0.585	0.0002	
SEP 6-87	SEP 5-87	<T	<M	0.01	0.030	<M	0.175	0.0030	
SEP 7-87	SEP 6-87	<T	0.04	0.045	0.025	<T	0.440	0.0093	
SEP 7-87	SEP 6-87	<T	0.05	0.080	0.055	<T	0.460	0.0033	
SEP 8-87	SEP 7-87	<T	<T	<T	0.020	<T	D	0.0020	
SEP 10-87	SEP 9-87	0.36	0.09	0.080	0.055	<M	D	0.0071	
SEP 11-87	SEP 10-87	0.18	<T	0.045	0.035	<M	1.250	0.0117	
SEP 12-87	SEP 11-87	<T	<T	<T	0.025	<T	<M	0.005	
SEP 13-87	SEP 12-87	*****	*****	*****	*****	*****	*****	*****	
SEP 14-87	SEP 13-87	<T	0.01	<T	0.010	<M	<M	0.0132	
SEP 15-87	SEP 14-87	<T	<M	<M	0.005	0.005	<T	0.0126	
SEP 16-87	SEP 15-87	0.02	0.01	<M	0.015	<M	0.010	0.0151	
SEP 17-87	SEP 16-87	<M	<T	<M	0.005	<M	0.055	*****	
SEP 18-87	SEP 17-87	*****	*****	*****	*****	*****	*****	*****	
SEP 19-87	SEP 18-87	<T	0.02	0.015	0.015	<T	0.190	0.0063	
SEP 20-87	SEP 19-87	<T	0.06	<T	0.015	0.025	0.125	0.0020	
SEP 21-87	SEP 20-87	<M	<T	<M	0.005	0.005	0.105	0.0013	
SEP 22-87	SEP 21-87	*****	*****	*****	*****	*****	0.005	0.0023	
SEP 23-87	SEP 22-87	<T	<T	<T	0.015	<T	<T	0.0001	
SEP 24-87	SEP 23-87	0.06	0.02	<T	0.015	<T	D	0.0076	
SEP 25-87	SEP 24-87	0.06	0.06	<T	0.010	0.025	0.300	0.0676	
SEP 26-87	SEP 25-87	0.04	0.03	<M	0.010	0.025	0.180	*****	
SEP 27-87	SEP 26-87	<T	0.03	<M	0.015	0.005	0.180	*****	
SEP 28-87	SEP 27-87	<T	0.03	<M	0.015	0.005	0.180	*****	
SEP 29-87	SEP 28-87	<T	0.02	0.015	0.015	0.025	0.180	*****	
SEP 30-87	SEP 29-87	0.06	0.06	0.015	0.015	0.025	0.180	*****	
OCT 1-87	OCT 31-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 2-87	OCT 1-87	0.06	0.06	0.015	0.015	0.025	0.180	*****	
OCT 3-87	OCT 2-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 4-87	OCT 3-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 5-87	OCT 4-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 6-87	OCT 5-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 7-87	OCT 6-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 8-87	OCT 7-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 9-87	OCT 8-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 10-87	OCT 9-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 11-87	OCT 10-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 12-87	OCT 11-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 13-87	OCT 12-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 14-87	OCT 13-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 15-87	OCT 14-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 16-87	OCT 15-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 17-87	OCT 16-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 18-87	OCT 17-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 19-87	OCT 18-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 20-87	OCT 19-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 21-87	OCT 20-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 22-87	OCT 21-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 23-87	OCT 22-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 24-87	OCT 23-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 25-87	OCT 24-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 26-87	OCT 25-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 27-87	OCT 26-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
OCT 28-87	OCT 27-87	0.04	0.06	0.015	0.015	0.025	0.180	*****	
NOV 2-87	NOV 1-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 3-87	NOV 2-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 4-87	NOV 3-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 5-87	NOV 4-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 6-87	NOV 5-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 7-87	NOV 6-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 8-87	NOV 7-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 9-87	NOV 8-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 10-87	NOV 9-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 11-87	NOV 10-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 12-87	NOV 11-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 13-87	NOV 12-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 14-87	NOV 13-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 15-87	NOV 14-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 16-87	NOV 15-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 17-87	NOV 16-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 18-87	NOV 17-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 19-87	NOV 18-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 20-87	NOV 19-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 21-87	NOV 20-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 22-87	NOV 21-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 23-87	NOV 22-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 24-87	NOV 23-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 25-87	NOV 24-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 26-87	NOV 25-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 27-87	NOV 26-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 28-87	NOV 27-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 29-87	NOV 28-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
NOV 30-87	NOV 29-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
DEC 1-87	NOV 30-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	
DEC 2-87	DEC 1-87	!IS	0.09	!IS	0.015	!IS	0.020	0.0062	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM										#16	PAGE : 10		
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
03-COMP/04-OTHER													
DEC 7,87	DEC 6,87	730 800	1100 2000	2	3.3	2	31933	2	1	85		IM	
DEC 9,87	DEC 8,87	730 730	1000 1400	3	0.2	2	31934	2	1	109			
DEC 11,87	DEC 10,87	730 730	2000 2200	3	0.2	2	31935	2	1	124		N	
DEC 12,87	DEC 11,87	730 800	1600 2000	2	0.4	2	31936	2	1	66			
DEC 13,87	DEC 12,87	800 800	800 1100	2	1.9	2	31937	2	1	30		BQ	
DEC 14,87	DEC 13,87	800 730	2000 2400	2	1.0	2	31938	2	1	39		N	
DEC 15,87	DEC 14,87	730 800	300 800	2	0.8	2	31939	2	1	35		N	
DEC 16,87	DEC 15,87	600 730	800 1100	2	0.1	2	31940	2	1	****		EK	
DEC 18,87	DEC 17,87	730 830	2300 830	2	1.5	2	31941	2	1	49		N	
DEC 19,87	DEC 18,87	830 830	1600 1900	2	0.4	2	31942	2	1	39		N	
DEC 20,87	DEC 19,87	830 830	2000 2400	2	1.8	2	31943	2	1	92		N	
DEC 21,87	DEC 20,87	830 730	1900 2100	2	0.6	2	31944	2	1	13		N	
DEC 25,87	DEC 24,87	730 830	900 1300	2	3.1	2	31945	2	1	40		N	
DEC 31,87	DEC 30,87	830 830	1400 650	2	3.2	2	31946	2	1	37		N	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM				#16	PAGE : 11				
REMOVAL DATE	EXPOSURE DATE	VOLUME	CONDUCT.	PH FIELD	PH LAB	TOTAL H+ TO PHB.3	TOTAL H+ GRAN	SULPHATE	NITRATE
		HL	UMHO/CM			MG/L	MG/L	MG/L	AS N MG/L
DEC 7,87	DEC 6,87	180.0	4.0	*****	5.29	*****	0.0246	0.45	0.13
DEC 9,87	DEC 8,87	14.0	8.0	*****	4.81	*****	0.0371	0.80	0.16
DEC 11,87	DEC 10,87	16.0	6.0	*****	5.81	*****	0.0193	1.10	0.20
DEC 12,87	DEC 11,87	17.0	4.0	*****	5.15	D	0.0248	0.40	0.16
DEC 13,87	DEC 12,87	37.0	5.5	*****	5.01	*****	0.0305	0.75	0.11
DEC 14,87	DEC 13,87	25.0	6.5	*****	5.15	*****	0.0277	1.05	0.10
DEC 15,87	DEC 14,87	18.0	5.5	*****	5.04	*****	0.0265	0.35	0.16
DEC 16,87	DEC 15,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 18,87	DEC 17,87	48.0	15.5	*****	4.53	*****	0.0478	0.45	0.71
DEC 19,87	DEC 18,87	10.0	5.0	*****	5.55	*****	0.0231	0.35	0.25
DEC 20,87	DEC 19,87	107.0	21.0	*****	4.43	*****	0.0566	1.40	0.64
DEC 21,87	DEC 20,87	5.0	*****	*****	*****	*****	0.0377	0.25	0.31
DEC 25,87	DEC 24,87	81.0	9.0	*****	4.70	*****	0.0377	0.25	0.31
DEC 31,87	DEC 30,87	77.0	25.5	*****	4.25	*****	0.0743	0.80	0.77

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM				#16	PAGE : 12			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 7,87	DEC 6,87	<T	0.05	<W	0.105	0.130	0.055	0.0051
DEC 9,87	DEC 8,87	<T	0.04	<W	0.005	0.045	0.100	0.0155
DEC 11,87	DEC 10,87	IIS	0.05	IIS	IIS	IIS	0.125	0.0015
DEC 12,87	DEC 11,87	IIS	0.06	IIS	IIS	IIS	0.100	0.0071
DEC 13,87	DEC 12,87	IIS	0.07	IIS	IIS	IIS	0.005	0.0098
DEC 14,87	DEC 13,87	IIS	0.12	IIS	IIS	IIS	0.030	0.0071
DEC 15,87	DEC 14,87	IIS	0.05	IIS	IIS	IIS	0.020	0.0091
DEC 16,87	DEC 15,87	IIS	IIS	IIS	IIS	IIS	IIS	IIS
DEC 18,87	DEC 17,87	0.46	0.09	0.055	0.035	0.070	0.020	0.0295
DEC 19,87	DEC 18,87	IIS	0.09	IIS	IIS	IIS	0.095	0.0028
DEC 20,87	DEC 19,87	0.10	0.06	<T	<T	0.030	0.435	0.0372
DEC 21,87	DEC 20,87	IIS	IIS	IIS	IIS	IIS	0.005	IIS
DEC 25,87	DEC 24,87	IIS	0.07	IIS	IIS	IIS	0.005	0.0200
DEC 31,87	DEC 30,87	<T	0.11	<T	0.005	0.045	0.170	0.0562

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SHOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 2,87	JAN 1,87	900	900	03-COMP	2.8	2	31724	2	1	56	
JAN 20,87	JAN 19,87	900	900	03-COMP	6.5	2	31726	2	1	82	
JAN 30,87	JAN 29,87	900	900	03-COMP	4.4	2	31729	2	1	82	
FEB 3,87	FEB 2,87	900	900	03-COMP	2.0	2	31730	2	1	55	N
FEB 11,87	FEB 10,87	900	900	03-COMP	2.0	2	31732	2	1	46	
FEB 14,87	FEB 13,87	900	900	03-COMP	2.4	2	31733	2	1	60	
FEB 22,87	FEB 21,87	900	900	03-COMP	4.2	2	31735	2	1	115	
FEB 24,87	FEB 23,87	900	900	03-COMP	4.0	2	31736	2	1	75	
MAR 2,87	MAR 1,87	900	900	03-COMP	5.8	2	31737	2	1	69	H
MAR 24,87	MAR 23,87	900	900	03-COMP	5.8	2	31738	2	1	104	C
APR 1,87	APR 31,87	900	900	03-COMP	2.4	2	31739	2	1	95	
APR 21,87	APR 20,87	900	900	03-COMP	0.1	1	31740	2	1	***	KE
MAY 13,87	MAY 12,87	900	900	03-COMP	3.0	1	31741	2	1	73	HM
MAY 14,87	MAY 13,87	900	900	03-COMP	5.0	1	31742	2	1	89	HM
MAY 16,87	MAY 15,87	900	900	03-COMP	2.1	1	31743	2	1	84	C
MAY 19,87	MAY 18,87	900	900	03-COMP	9.0	1	31744	2	1	203	NH
MAY 21,87	MAY 20,87	900	900	03-COMP	8.8	1	31746	2	1	96	
MAY 22,87	MAY 21,87	900	900	03-COMP	25.0	1	31752	2	1	76	EG
MAY 26,87	MAY 25,87	900	900	03-COMP	11.2	1	31747	2	1	92	
JUN 2,87	JUN 1,87	900	900	03-COMP	13.8	1	31748	2	1	99	EG
JUN 4,87	JUN 3,87	900	900	03-COMP	9.2	1	31749	2	1	95	EG
JUN 5,87	JUN 4,87	900	900	03-COMP	3.4	1	31750	2	1	82	
JUN 6,87	JUN 5,87	900	900	03-COMP	3.2	1	31751	2	1	73	
JUN 24,87	JUN 23,87	900	900	03-COMP	4.9	1	31753	2	1	83	C
JUN 27,87	JUN 26,87	900	900	03-COMP	7.8	1	31754	2	1	82	
JUL 2,87	JUL 1,87	900	900	03-COMP	6.0	1	31755	2	1	87	
JUL 3,87	JUL 2,87	900	900	03-COMP	3.4	1	31756	2	1	69	
JUL 6,87	JUL 5,87	900	900	03-COMP	4.0	1	31757	2	1	82	
JUL 10,87	JUL 9,87	900	900	03-COMP	4.8	1	31758	2	1	103	
JUL 11,87	JUL 10,87	900	900	03-COMP	6.0	1	31759	2	1	101	
JUL 12,87	JUL 11,87	900	900	03-COMP	7.2	1	31760	2	1	96	
JUL 15,87	JUL 14,87	900	900	03-COMP	3.6	1	31761	2	1	74	
JUL 16,87	JUL 15,87	900	900	03-COMP	6.0	1	31762	2	1	91	
JUL 17,87	JUL 16,87	900	900	03-COMP	7.4	1	31763	2	1	89	
JUL 19,87	JUL 18,87	900	900	03-COMP	14.8	1	31764	2	1	99	
JUL 20,87	JUL 19,87	900	900	03-COMP	9.6	1	31765	2	1	92	
JUL 22,87	JUL 21,87	900	900	03-COMP	7.0	1	31766	2	1	96	C
JUL 23,87	JUL 22,87	900	900	03-COMP	25.0	1	31767	2	1	100	
AUG 1,87	JUL 31,87	900	900	03-COMP	25.0	1	31768	2	1	211	AP
AUG 4,87	AUG 3,87	900	900	03-COMP	6.0	1	31769	2	1	97	C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIDS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEN #14

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH6.5 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2-87	JAN 1-87	102.0	8.7	*****	UG	6.27	0.0186	1.15	0.39
JAN 20-87	JAN 19-87	343.0	7.7	*****	4.82	0.0298	0.0298	0.40	0.21
JAN 30-87	JAN 29-87	238.0	7.6	*****	4.82	0.0299	0.0299	0.30	0.23
FEB 3-87	FEB 2-87	71.0	5.6	*****	5.10	0.0224	0.0224	0.35	0.16
FEB 13-87	FEB 10-87	60.0	19.8	*****	UG	6.79	0.0209	1.95	0.88
FEB 14-87	FEB 13-87	95.0	18.6	*****	4.68	0.0439	0.0439	2.35	0.45
FEB 22-87	FEB 21-87	310.0	19.8	*****	4.60	0.0466	0.0466	1.20	0.89
FEB 24-87	FEB 23-87	129.0	53.4	*****	3.91	0.1480	0.1480	2.90	1.58
MAR 2-87	MAR 1-87	257.0	7.8	*****	4.76	0.0316	0.0316	0.05	0.24
MAR 24-87	MAR 23-87	388.0	31.3	*****	4.85	0.0425	0.0425	UG	0.88
APR 1-87	MAR 31-87	147.0	17.8	*****	4.46	0.0523	0.0523	1.55	0.31
APR 21-87	APR 20-87	*****	*****	*****	*****	0.0337	0.0337	3.95	0.93
MAY 13-87	MAY 12-87	142.0	31.3	*****	UG	6.90	0.0263	2.05	0.48
MAY 14-87	MAY 13-87	286.0	16.2	*****	6.60	0.0209	0.0209	2.00	0.58
MAY 16-87	MAY 15-87	114.0	17.8	*****	UG	6.95	0.0252	0.80	0.17
MAY 19-87	MAY 18-87	1172.0	7.3	*****	D	5.35	0.0356	1.60	0.40
MAY 21-87	MAY 20-87	544.0	14.3	*****	4.69	0.0356	0.0356	1.35	0.15
MAY 22-87	MAY 21-87	1230.0	*****	*****	4.53	0.0392	0.0392	1.35	0.15
MAY 26-87	MAY 25-87	667.0	12.8	*****	*****	0.0216	0.0216	0.50	0.05
JUN 2-87	JUN 1-87	879.0	*****	*****	*****	0.0406	0.0406	1.70	0.85
JUN 4-87	JUN 3-87	562.0	*****	*****	*****	0.0309	0.0309	1.10	0.68
JUN 5-87	JUN 4-87	179.0	5.1	*****	4.81	0.0313	0.0313	1.35	0.36
JUN 6-87	JUN 5-87	151.0	19.4	*****	5.12	0.0296	0.0296	0.25	0.08
JUN 24-87	JUN 23-87	263.0	9.0	*****	4.98	0.0313	0.0313	1.00	0.59
JUN 27-87	JUN 26-87	411.0	7.0	*****	4.94	0.0277	0.0277	0.70	0.27
JUL 2-87	JUL 1-87	338.0	11.0	*****	5.15	0.0315	0.0315	0.55	0.12
JUL 3-87	JUL 2-87	152.0	4.0	*****	5.09	0.0296	0.0296	1.00	0.39
JUL 8-87	JUL 7-87	212.0	9.5	*****	5.25	0.0277	0.0277	0.70	0.27
JUL 10-87	JUL 9-87	319.0	8.0	*****	4.93	0.0315	0.0315	0.55	0.12
JUL 11-87	JUL 10-87	392.0	8.5	*****	5.07	0.0296	0.0296	0.55	0.12
JUL 12-87	JUL 11-87	445.0	6.0	*****	5.32	0.0277	0.0277	0.55	0.12
JUL 15-87	JUL 14-87	171.0	3.0	*****	5.32	0.0296	0.0296	0.55	0.12
JUL 16-87	JUL 15-87	352.0	9.0	*****	4.95	0.0308	0.0308	1.00	0.31
JUL 17-87	JUL 16-87	426.0	5.0	*****	6.00	0.0198	0.0198	0.65	0.18
JUL 19-87	JUL 18-87	940.0	10.0	*****	4.91	0.0345	0.0345	1.50	0.23
JUL 20-87	JUL 19-87	570.0	5.5	*****	5.10	0.0266	0.0266	0.50	0.17
JUL 22-87	JUL 21-87	432.0	12.5	*****	4.91	0.0354	0.0354	1.85	0.42
JUL 23-87	JUL 22-87	1613.0	5.5	*****	5.30	0.0251	0.0251	0.85	0.15
AUG 1-87	JUL 31-87	3392.0	5.5	*****	5.61	0.0215	0.0215	0.70	0.21
AUG 4-87	AUG 3-87	376.0	3.0	*****	5.59	0.0185	0.0185	0.30	0.04

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14										PAGE : 3	
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L			
JAN 2-87	JAN 1-87	0.28	0.07	<T	0.025		0.555	UG	0.0005		
JAN 20-87	JAN 19-87	0.16	0.09	<T	0.010	<T	0.060		0.040		
JAN 30-87	JAN 29-87	0.14	0.07	<T	0.005	<T	0.025		0.045		
FEB 3-87	FEB 2-87	<T	0.10	<T	0.010	0.040	0.040		0.030		
FEB 11-87	FEB 10-87	1.02	0.35	0.200	0.045	0.175	0.100	UG	0.0002		
FEB 14-87	FEB 13-87	IIS	0.24	IIS	*****	*****	0.615		0.0209		
FEB 22-87	FEB 21-87	0.50	0.21	0.075	0.110	0.075	0.475		0.0251		
FEB 24-87	FEB 23-87	0.22	0.29	0.030	0.045	0.110	0.685		0.1230		
MAR 2-87	MAR 1-87	0.05	0.10	0.015	0.020	0.030	0.020		0.0174		
MAR 24-87	MAR 23-87	UG	0.29	0.265	0.505	0.110	0.600		0.0141		
APR 1-87	APR 31-87	0.36	0.08	0.040	<T	0.030	0.130		0.0347		
APR 21-87	APR 20-87	*****	*****	*****	*****	*****	*****	*****	*****		
MAY 13-87	MAY 12-87	1.14	0.25	0.260	UG	0.250	2.000	UG	0.0001		
MAY 14-87	MAY 13-87	1.00	0.09	0.205	0.115	0.120	0.735		0.0003		
MAY 16-87	MAY 15-87	0.94	0.13	0.195	UG	0.080	0.950	UG	0.0001		
MAY 19-87	MAY 18-87	0.22	0.06	0.035	0.030	<T	0.045		0.0045		
MAY 21-87	MAY 20-87	<T	0.10	0.010	0.030	0.010	0.280	D	0.0204		
MAY 22-87	MAY 21-87	*****	*****	*****	*****	*****	0.530		*****		
MAY 26-87	MAY 25-87	<T	0.05	<W	0.005	<W	0.115		0.0295		
JUN 2-87	JUN 1-87	*****	*****	*****	*****	*****	*****	*****	*****		
JUN 4-87	JUN 3-87	*****	*****	*****	*****	*****	*****	*****	*****		
JUN 5-87	JUN 4-87	<W	<W	0.005	<T	<W	0.005	<W	<W		
JUN 6-87	JUN 5-87	0.58	0.25	0.080	0.155	0.080	0.715		0.0100		
JUN 24-87	JUN 23-87	0.20	0.07	0.045	0.140	0.030	0.320		0.0076		
JUN 27-87	JUN 26-87	0.20	0.04	0.035	0.045	0.045	0.065		0.0105		
JUL 2-87	JUL 1-87	D	0.13	0.050	0.045	<T	0.010		0.0115		
JUL 3-87	JUL 2-87	<T	0.02	0.005	0.005	<T	0.045		0.0071		
JUL 8-87	JUL 7-87	0.04	0.37	0.055	0.125	UG	0.245		0.0081		
JUL 10-87	JUL 9-87	0.14	0.06	0.030	0.030	<T	0.475		0.0056		
JUL 11-87	JUL 10-87	0.22	0.08	0.030	0.035	0.040	0.145		0.0117		
JUL 12-87	JUL 11-87	<T	0.06	0.010	0.040	0.045	0.105		0.0085		
JUL 15-87	JUL 14-87	<T	0.03	<W	0.025	<T	0.005	<T	0.0048		
JUL 16-87	JUL 15-87	0.12	0.06	0.055	0.035	<T	0.215		0.0112		
JUL 17-87	JUL 16-87	0.26	0.05	0.025	0.065	0.035	0.275	D	0.0010		
JUL 19-87	JUL 18-87	0.28	0.11	0.035	0.040	0.055	0.310		0.0123		
JUL 20-87	JUL 19-87	<T	0.06	0.015	0.035	<T	0.135		0.0079		
JUL 22-87	JUL 21-87	0.32	0.11	0.040	0.035	0.050	0.480		0.0123		
JUL 23-87	JUL 22-87	0.10	0.03	0.015	0.020	0.015	0.250		0.0050		
AUG 1-87	AUG 31-87	0.14	0.04	<T	0.030	<T	0.265		0.0025		
AUG 4-87	AUG 3-87	0.04	0.01	0.015	0.025	0.015	0.035		0.0025		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHIM #14										PAGE : 4	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(HH)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY	COMMENTS
				01-RAIN	01-STD.	02-NIPHER		02-APIOS	03-AES		FIELD OFFICE
				02-SNOW				03-SPECIAL		(%)	
				03-COMP/04-OTHER							
AUG 12-87	AUG 11-87	900	900	1	47.0	1	31773	2	1	105	
AUG 14-87	AUG 13-87	900	900	1	0.1	1	31774	2	1	***	E N
AUG 15-87	AUG 14-87	900	900	1	11.0	1	31775	2	1	104	
AUG 16-87	AUG 15-87	900	900	1	34.6	1	31776	2	1	97	
AUG 17-87	AUG 16-87	900	900	1	3.4	1	31777	2	1	88	
AUG 18-87	AUG 17-87	900	900	1	3.0	1	31778	2	1	86	M
AUG 20-87	AUG 19-87	900	900	1	***	1	31779	2	1	***	
AUG 22-87	AUG 21-87	900	900	1	***	1	31780	2	1	***	
AUG 26-87	AUG 25-87	900	900	1	***	1	31782	2	1	***	
AUG 30-87	AUG 29-87	900	900	1	***	1	31783	2	1	***	
SEP 4-87	SEP 3-87	900	900	1	5.6	1	31784	2	1	93	HN
SEP 6-87	SEP 5-87	900	900	1	22.1	1	31785	2	1	94	H
SEP 7-87	SEP 6-87	900	900	1	2.0	1	31786	2	1	31	
SEP 9-87	SEP 8-87	900	900	1	4.4	1	31787	2	1	81	NH
SEP 11-87	SEP 10-87	900	900	1	13.0	1	31788	2	1	98	
SEP 14-87	SEP 13-87	900	900	1	6.4	1	31789	2	1	91	
SEP 20-87	SEP 19-87	900	900	1	18.0	1	31790	2	1	93	
SEP 21-87	SEP 20-87	900	900	1	5.4	1	31791	2	1	92	A
OCT 1-87	SEP 30-87	900	900	1	4.0	1	31792	2	1	104	A
OCT 6-87	OCT 5-87	900	900	1	4.0	1	31793	2	1	124	C NC
OCT 9-87	OCT 8-87	900	900	2	10.6	2	31794	2	1	53	C H
OCT 16-87	OCT 15-87	900	900	2	0.1	2	31795	2	1	56	Q
OCT 21-87	OCT 20-87	900	900	2	3.8	2	31796	2	1	***	EK
OCT 23-87	OCT 22-87	900	900	2	3.0	2	31797	2	1	53	H
OCT 24-87	OCT 23-87	900	900	2	***	2	31798	2	1	***	HCH
OCT 27-87	OCT 26-87	900	900	2	3.4	2	31799	2	1	***	P
OCT 27-87	OCT 26-87	900	900	3	0.1	2	31800	2	1	***	FKT
NOV 3-87	NOV 2-87	900	900	1	0.1	2	31801	2	1	***	EK
NOV 6-87	NOV 5-87	900	900	2	0.1	2	31802	2	1	***	EK
NOV 17-87	NOV 16-87	900	900	3	11.4	2	31803	2	1	83	
DEC 1-87	NOV 30-87	900	900	2	0.1	2	31804	2	1	***	EK
DEC 9-87	DEC 8-87	900	900	3	0.1	2	31805	2	1	***	EK
DEC 10-87	DEC 9-87	900	900	2	0.6	2	31806	2	1	53	
DEC 11-87	DEC 10-87	900	900	2	4.0	2	31807	2	1	73	
DEC 12-87	DEC 11-87	900	900	2	0.1	2	31808	2	1	***	EK
DEC 13-87	DEC 12-87	900	900	2	3.8	2	31809	2	1	69	
DEC 14-87	DEC 13-87	900	900	2	0.1	2	31810	2	1	***	EK
DEC 15-87	DEC 14-87	900	900	2	1.0	2	31811	2	1	49	
DEC 21-87	DEC 20-87	900	900	2	2.4	2	31812	2	1	44	N
DEC 31-87	DEC 30-87	900	900	2	3.4	2	31813	2	1	76	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/O/CM	PH FIELD	PH LAB	TOTAL H+ TO PHB.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 12,87	AUG 11,87	3179.0	6.0	*****	5.19	*****	0.0250	0.75	0.12
AUG 14,87	AUG 13,87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 15,87	AUG 14,87	738.0	11.5	*****	4.59	*****	0.0442	1.35	0.11
AUG 16,87	AUG 15,87	2163.0	6.0	*****	5.11	*****	0.0248	0.50	0.15
AUG 17,87	AUG 16,87	192.0	7.0	*****	5.00	*****	0.0294	0.60	0.14
AUG 18,87	AUG 17,87	166.0	4.0	*****	5.21	*****	0.0269	0.45	<T
AUG 20,87	AUG 19,87	340.0	7.5	*****	5.39	*****	0.0225	1.15	0.15
AUG 22,87	AUG 21,87	420.0	19.0	*****	4.50	*****	0.0530	1.90	0.40
AUG 26,87	AUG 25,87	323.0	9.5	*****	4.72	*****	0.0373	1.10	0.06
AUG 30,87	AUG 29,87	393.0	3.5	*****	5.52	*****	0.0206	0.50	0.07
SEP 4,87	SEP 3,87	227.0	14.0	*****	5.21	*****	0.0301	1.90	0.50
SEP 6,87	SEP 5,87	1343.0	6.5	*****	5.16	*****	0.0257	0.85	0.16
SEP 7,87	SEP 6,87	41.0	18.0	*****	6.14	*****	0.0244	3.15	0.61
SEP 9,87	SEP 8,87	230.0	6.5	*****	5.71	*****	0.0199	0.70	0.18
SEP 11,87	SEP 10,87	818.0	6.0	*****	5.36	*****	0.0218	0.75	0.17
SEP 14,87	SEP 13,87	375.0	3.0	*****	5.39	*****	0.0257	0.40	<T
SEP 20,87	SEP 19,87	1083.0	14.0	*****	4.52	*****	0.0488	1.35	0.12
SEP 21,87	SEP 20,87	320.0	5.0	*****	5.03	*****	0.0263	0.45	<T
OCT 1,87	SEP 30,87	269.0	6.0	*****	6.54	*****	0.0166	1.55	0.28
OCT 6,87	OCT 5,87	319.0	2.0	*****	5.99	*****	0.0168	0.70	<T
OCT 9,87	OCT 8,87	361.0	10.0	*****	7.21	*****	0.0128	1.50	0.57
OCT 16,87	OCT 15,87	138.0	15.0	*****	4.50	*****	0.0571	2.30	0.29
OCT 21,87	OCT 20,87	*****	*****	*****	*****	*****	*****	*****	*****
OCT 23,87	OCT 22,87	102.0	5.0	*****	4.98	*****	0.0346	0.75	0.13
OCT 24,87	OCT 23,87	67.0	2.0	*****	5.43	*****	0.0190	0.50	0.08
OCT 27,87	OCT 26,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 3,87	NOV 2,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 6,87	NOV 5,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 17,87	NOV 16,87	613.0	15.0	*****	4.49	*****	0.0567	1.65	0.34
DEC 1,87	NOV 30,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 9,87	DEC 8,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 10,87	DEC 9,87	32.0	7.5	*****	4.69	*****	0.0233	1.35	0.09
DEC 11,87	DEC 10,87	188.0	7.5	*****	5.25	*****	0.0264	0.80	0.35
DEC 12,87	DEC 12,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 13,87	DEC 13,87	170.0	7.5	*****	4.77	*****	0.0338	0.50	0.19
DEC 14,87	DEC 14,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 15,87	DEC 15,87	32.0	15.5	*****	4.45	*****	0.0368	0.65	0.43
DEC 21,87	DEC 20,87	69.0	10.0	*****	5.01	*****	0.0392	0.80	0.39
DEC 31,87	DEC 30,87	167.0	22.0	*****	4.35	*****	0.0661	0.75	0.75

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

PAGE : 6

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 12-87	AUG 11-87	0.12	0.05	<T	0.015	<T	0.010	<T
AUG 14-87	AUG 13-87	*****	*****	<T	0.015	*****	0.010	*****
AUG 15-87	AUG 14-87	<T	0.04	<T	0.015	0.030	0.010	0.0257
AUG 16-87	AUG 15-87	0.04	0.04	<T	0.010	<T	0.020	0.0078
AUG 17-87	AUG 16-87	<T	0.10	<T	0.015	0.045	0.060	0.0100
AUG 18-87	AUG 17-87	<T	0.06	<T	0.005	<T	0.025	0.0062
AUG 18-87	AUG 17-87	0.18	0.04	0.030	0.040	0.030	0.250	0.0041
AUG 20-87	AUG 21-87	0.30	0.06	0.045	0.045	0.035	0.345	0.0316
AUG 22-87	AUG 23-87	0.08	0.01	<T	0.025	<T	0.010	0.0191
AUG 26-87	AUG 25-87	<T	<W	<T	0.005	0.050	0.110	0.0030
AUG 30-87	AUG 29-87	<W	0.01	<T	0.005	0.030	0.020	0.0062
SEP 4-87	SEP 3-87	0.44	0.07	0.04	0.100	0.030	0.710	0.0069
SEP 6-87	SEP 5-87	0.20	0.04	0.025	0.030	<T	0.015	0.0019
SEP 7-87	SEP 6-87	0.08	0.14	0.190	0.190	0.095	0.775	0.0077
SEP 9-87	SEP 8-87	!IS	0.04	!IS	0.030	!IS	0.155	0.0044
SEP 11-87	SEP 10-87	0.20	0.08	<T	0.060	<T	0.020	0.0044
SEP 14-87	SEP 13-87	0.04	0.09	<T	0.005	0.040	0.050	0.0041
SEP 20-87	SEP 19-87	0.14	0.04	<T	0.020	0.025	0.015	0.0302
SEP 21-87	SEP 20-87	<T	0.01	<W	0.005	<T	0.005	0.0093
SEP 21-87	SEP 20-87	0.58	0.06	0.120	0.095	0.070	0.320	0.0093
OCT 1-87	SEP 30-87	0.18	0.02	0.035	0.020	0.030	0.085	0.0010
OCT 6-87	OCT 5-87	1.16	0.16	0.255	0.100	0.045	0.455	0.0010
OCT 9-87	OCT 8-87	0.50	0.04	0.085	0.030	<T	0.160	0.0001
OCT 16-87	OCT 15-87	0.08	0.01	0.005	0.005	0.025	0.336	0.0001
OCT 21-87	OCT 20-87	0.08	0.01	<T	0.010	0.015	0.025	0.0105
OCT 23-87	OCT 22-87	<T	0.15	<T	0.010	0.010	0.005	0.0037
OCT 24-87	OCT 23-87	0.06	0.06	0.010	0.010	0.010	0.005	0.0037
OCT 27-87	OCT 26-87	*****	*****	*****	*****	*****	*****	*****
NOV 3-87	NOV 2-87	*****	*****	*****	*****	*****	*****	*****
NOV 6-87	NOV 5-87	*****	*****	*****	*****	*****	*****	*****
NOV 17-87	NOV 16-87	0.10	0.04	<W	0.005	<T	0.300	0.0324
DEC 1-87	NOV 30-87	*****	*****	*****	*****	*****	0.300	0.0324
DEC 9-87	DEC 8-87	*****	*****	*****	*****	*****	0.300	0.0324
DEC 10-87	DEC 9-87	!IS	0.10	!IS	0.040	!IS	0.600	0.0129
DEC 11-87	DEC 10-87	0.22	0.11	*****	0.020	0.105	0.210	0.0056
DEC 12-87	DEC 11-87	*****	0.08	<T	0.005	0.045	0.020	0.0170
DEC 13-87	DEC 12-87	<T	0.02	<W	0.005	0.045	0.020	0.0170
DEC 14-87	DEC 13-87	*****	0.12	!IS	0.005	0.045	0.005	0.0355
DEC 15-87	DEC 14-87	!IS	0.19	!IS	0.035	0.130	0.175	0.0098
DEC 21-87	DEC 20-87	0.28	0.13	!IS	0.035	0.130	0.130	0.0447
DEC 31-87	DEC 30-87	!IS	0.13	!IS	0.035	0.130	0.130	0.0447

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PART V

SOUTHEASTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AERO/CHEM #11

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY	COMMENTS FIELD OFFICE
				01-RAIN 02-SNOW		01-STD. 02-NIPHER		02-APIOS 03-SPECIAL	01-HOE 03-AES		
JAN 3,87	JAN 2,87	800 700	1300 2300	2	9.6	2	54097	2	1	72	N
JAN 8,87	JAN 7,87	600 900	700 1600	2	1.7	2	54098		1	149	
JAN 8,87	JAN 8,87	900 900	1400 900	2	****	2	54099	2	1	****	E
JAN 10,87	JAN 9,87	900 800	500 800	2	1.9	2	54100	2	1	94	
JAN 11,87	JAN 10,87	800 800	800 1100	2	3.6	2	54101	2	1	76	
JAN 12,87	JAN 11,87	800 800	1800 600	3	1.0	2	54103	2	1	113	
JAN 16,87	JAN 15,87	600 1000	700 1400	1	2.3	2	54105	2	1	153	N
JAN 19,87	JAN 18,87	700 800	900 1900	2	7.9	2	54106	2	1	80	J
JAN 21,87	JAN 20,87	630 630	2000 300	2	3.2	2	54107	2	1	100	
JAN 23,87	JAN 22,87	630 630	1600 630	2	9.6	2	54108	2	1	84	CH
JAN 24,87	JAN 23,87	630 630	630 1500	2	0.3	2	54109	2	1	52	
JAN 28,87	JAN 27,87	630 830	1400 2300	2	****	2	54110	2	1	****	E
JAN 29,87	JAN 28,87	830 900	1100 1900	2	****	2	54111	2	1	****	E
JAN 31,87	JAN 30,87	800 900	1000 900	2	8.8	2	54112	2	1	83	C
FEB 4,87	FEB 3,87	930 930	930 930	3	3.5	2	54113	2	1	100	
FEB 5,87	FEB 4,87	930 930	1500 200	2	0.3	2	54114	2	1	265	N
FEB 7,87	FEB 6,87	830 900	1700 1100	2	0.3	2	54115	2	1	379	NC
FEB 9,87	FEB 8,87	900 900	1100 300	2	1.0	2	54116	2	1	137	N
FEB 13,87	FEB 12,87	900 630	1900 300	2	27.2	2	54117	2	1	74	
MAR 1,87	FEB 28,87	800 900	****	3	1.3	2	54118	2	1	111	
MAR 3,87	MAR 1,87	900 900	1000 2100	3	14.4	2	54120	2	1	50	C
MAR 4,87	MAR 3,87	900 600	1700 2300	2	24.2	2	57058	2	1	88	Z
MAR 28,87	MAR 27,87	800 630	1900 300	1	0.6	2	57059	2	1	****	E
MAR 31,87	MAR 30,87	800 830	1100 830	1	0.2	2	57060	2	1	120	N
APR 1,87	MAR 31,87	830 900	830 100	3	13.8	2	57061	2	1	79	NT
APR 2,87	APR 1,87	900 900	300 900	2	2.2	2	57062	2	1	120	
APR 3,87	APR 2,87	900 900	900 1500	3	3.7	2	57063	2	1	92	
APR 4,87	APR 3,87	900 730	300 730	1	9.2	2	57064	2	1	****	E
APR 5,87	APR 4,87	730 730	730 1800	1	10.0	2	57065	2	1	67	N
APR 6,87	APR 5,87	730 800	1400 800	1	2.2	2	57066	2	1	100	
APR 7,87	APR 6,87	800 800	800 2400	1	1.5	2	57067	2	1	173	N
APR 8,87	APR 7,87	800 800	500 800	1	0.2	2	57068	2	1	173	NC
APR 13,87	APR 12,87	800 1200	900 100	1	12.1	1	54122	2	1	436	N
APR 14,87	APR 13,87	800 800	2300 600	3	5.6	1	54123	2	1	****	P
APR 28,87	APR 27,87	600 600	****	1	6.4	1	54124	2	1	120	CD
APR 30,87	APR 29,87	700 700	****	1	0.1	1	54125	2	1	110	N
MAY 5,87	MAY 4,87	800 1100	****	1	6.4	1	54126	2	1	****	E
MAY 12,87	MAY 11,87	700 630	730 1100	1	8.2	1	69001	2	1	100	CD
MAY 15,87	MAY 14,87	800 900	2200 500	1		1	69002	2	1	99	C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PH6.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 3-87	JAN 2-87	449.0	7.7	4.50	4.81	*****	0.0300	LG	0.25
JAN 8-87	JAN 7-87	185.0	67.0	3.61	3.95	*****	0.1310	3.70	2.45
JAN 9-87	JAN 8-87	2.0	*****	*****	*****	*****	*****	*****	*****
JAN 10-87	JAN 9-87	115.0	23.1	*****	4.39	*****	0.0557	1.50	0.43
JAN 11-87	JAN 10-87	176.0	29.5	4.25	4.45	*****	0.0535	3.20	0.94
JAN 12-87	JAN 11-87	73.0	7.8	*****	5.45	*****	0.0183	0.80	0.32
JAN 16-87	JAN 15-87	226.0	100.0	3.66	3.77	*****	0.2220	4.45	2.75
JAN 19-87	JAN 18-87	409.0	17.6	3.76	4.65	*****	0.0423	0.90	0.56
JAN 21-87	JAN 20-87	207.0	59.9	3.91	3.99	*****	0.1450	2.60	1.42
JAN 23-87	JAN 22-87	519.0	8.3	4.80	4.97	*****	0.0295	LG	0.26
JAN 24-87	JAN 23-87	10.0	10.1	*****	4.80	*****	0.0352	LG	0.33
JAN 26-87	JAN 27-87	1.0	*****	*****	*****	*****	*****	*****	*****
JAN 29-87	JAN 28-87	3.0	*****	*****	*****	*****	*****	*****	*****
JAN 31-87	JAN 30-87	473.0	81.1	*****	4.16	*****	0.1030	1.95	0.98
FEB 3-87	FEB 2-87	225.0	70.2	4.01	4.07	*****	0.1290	5.55	2.68
FEB 4-87	FEB 3-87	51.0	12.1	*****	4.97	*****	0.0313	1.40	0.32
FEB 5-87	FEB 4-87	73.0	4.8	*****	6.68	*****	0.0138	0.35	0.05
FEB 7-87	FEB 6-87	88.0	78.9	*****	3.91	*****	0.1650	4.10	2.60
FEB 9-87	FEB 8-87	1300.0	13.0	4.98	5.09	*****	0.0279	1.00	0.54
FEB 13-87	FEB 12-87	93.0	25.6	*****	4.36	*****	0.0669	0.25	1.12
MAR 1-87	FEB 28-87	464.0	8.1	*****	5.28	*****	0.0216	0.75	0.22
MAR 3-87	MAR 1-87	1374.0	9.5	*****	4.79	*****	0.0277	0.90	0.18
MAR 4-87	MAR 3-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 26-87	MAR 27-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 31-87	MAR 30-87	698.0	18.5	*****	4.41	*****	0.0368	1.70	0.31
APR 1-87	MAR 31-87	702.0	16.5	*****	4.37	*****	0.0955	1.75	0.13
APR 2-87	APR 1-87	131.0	20.0	*****	4.37	*****	0.0917	1.05	0.37
APR 3-87	APR 2-87	*****	*****	*****	*****	*****	*****	*****	*****
APR 4-87	APR 3-87	399.0	27.0	*****	4.25	*****	0.0837	1.80	0.49
APR 5-87	APR 4-87	645.0	9.5	*****	4.68	*****	0.0661	0.85	0.11
APR 6-87	APR 5-87	245.0	17.5	*****	4.39	*****	0.0633	1.55	0.21
APR 7-87	APR 6-87	167.0	8.5	*****	4.50	*****	0.0739	1.70	0.09
APR 8-87	APR 7-87	56.0	15.0	*****	4.43	*****	0.0763	1.65	0.23
APR 13-87	APR 12-87	60.0	60.0	*****	3.75	*****	0.2120	5.60	1.30
APR 24-87	APR 23-87	937.0	65.0	*****	3.72	*****	0.2300	6.05	1.01
APR 28-87	APR 27-87	397.0	25.0	*****	4.33	*****	0.1340	1.20	0.64
APR 30-87	APR 29-87	457.0	14.0	*****	4.82	*****	0.0442	2.00	0.49
MAY 5-87	MAY 4-87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 12-87	MAY 11-87	414.0	31.1	3.95	4.60	*****	0.0911	7.45	0.05
MAY 15-87	MAY 14-87	523.0	39.9	3.68	4.01	*****	0.1170	3.40	0.45

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 3-87	JAN 2-87	0.10	0.08	<T	0.005	<W	0.005	<T
JAN 6-87	JAN 7-87	1.66	0.40	0.055	0.030	0.110	0.665	0.0155
JAN 9-87	JAN 8-87	*****	*****	*****	*****	0.110	*****	0.1122
JAN 10-87	JAN 9-87	0.12	0.06	<T	0.010	<T	0.165	0.0407
JAN 11-87	JAN 10-87	1.50	0.16	0.035	0.055	0.065	0.315	0.0355
JAN 12-87	JAN 11-87	0.62	0.13	<T	0.020	0.010	0.055	0.0035
JAN 15-87	JAN 14-87	0.72	0.33	<T	0.020	0.045	1.550	0.1698
JAN 16-87	JAN 15-87	0.56	0.20	0.035	0.010	0.045	0.100	0.0224
JAN 19-87	JAN 18-87	0.50	0.57	<T	0.020	0.015	0.460	0.1023
JAN 21-87	JAN 20-87	0.30	0.06	<W	0.005	<T	0.005	0.0107
JAN 23-87	JAN 22-87	0.16	0.08	IIS	IIS	IIS	0.005	0.0158
JAN 24-87	JAN 23-87	*****	*****	*****	*****	*****	*****	*****
JAN 25-87	JAN 24-87	*****	*****	*****	*****	*****	*****	*****
JAN 28-87	JAN 27-87	*****	*****	*****	*****	*****	*****	*****
JAN 29-87	JAN 28-87	0.32	0.17	<T	0.010	0.035	0.290	0.0692
JAN 31-87	JAN 30-87	1.84	0.56	0.075	0.070	0.215	1.750	0.0851
FEB 3-87	FEB 2-87	0.80	0.13	<T	0.010	0.060	0.005	0.0107
FEB 4-87	FEB 3-87	0.56	0.15	<T	0.015	0.090	0.005	0.0002
FEB 5-87	FEB 4-87	0.56	0.15	<T	0.010	0.090	0.005	0.0002
FEB 7-87	FEB 6-87	1.74	1.57	0.170	0.010	0.885	0.795	0.1230
FEB 9-87	FEB 8-87	0.58	0.16	<T	0.010	0.025	0.340	0.0081
FEB 13-87	FEB 12-87	0.88	0.34	<T	0.020	0.115	0.005	0.0437
MAR 1-87	FEB 28-87	0.44	0.03	<T	0.010	0.005	0.040	0.0052
MAR 3-87	MAR 1-87	0.14	0.04	<T	0.005	<T	0.105	0.0162
MAR 4-87	MAR 3-87	*****	*****	*****	*****	*****	*****	*****
MAR 5-87	MAR 4-87	*****	*****	*****	*****	*****	*****	*****
MAR 21-87	MAR 20-87	0.44	0.23	D	0.035	D	0.035	0.0389
MAR 28-87	MAR 27-87	0.20	0.03	<T	0.005	<T	0.035	0.0309
APR 1-87	APR 31-87	0.24	0.10	<T	0.015	<W	0.005	0.0427
APR 2-87	APR 1-87	*****	*****	*****	*****	*****	*****	*****
APR 3-87	APR 2-87	*****	*****	*****	*****	*****	*****	*****
APR 4-87	APR 3-87	0.14	0.26	<W	0.005	0.125	0.005	0.0562
APR 5-87	APR 4-87	0.04	0.38	D	0.025	D	0.025	0.0209
APR 6-87	APR 5-87	0.14	0.22	<W	0.005	0.100	0.015	0.0407
APR 7-87	APR 6-87	0.12	0.08	<T	0.020	0.035	0.005	0.0316
APR 8-87	APR 7-87	0.12	0.07	<T	0.020	0.005	0.035	0.0372
APR 13-87	APR 12-87	1.22	0.45	D	0.170	<T	0.005	0.1778
APR 24-87	APR 23-87	0.36	0.56	D	0.055	0.050	0.180	0.1905
APR 27-87	APR 26-87	0.42	1.17	D	0.110	0.105	0.260	0.0468
APR 30-87	APR 29-87	0.42	0.23	D	0.080	0.070	0.500	0.0151
MAY 5-87	MAY 4-87	*****	*****	*****	*****	*****	*****	*****
MAY 12-87	MAY 11-87	1.70	0.30	0.285	0.150	0.090	0.515	0.0251
MAY 15-87	MAY 14-87	0.20	0.10	0.025	0.025	0.015	0.060	0.0977

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH (MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-STD.		02-APIOS	03-AES		
				02-SNOW		02-NIPHER		03-SPECIAL			
				03-COMP/04-OTHER							
MAY 17,87	MAY 16,87	900 900	2300 500	1	2.5	1	69003	2	1	97	C
MAY 21,87	MAY 20,87	900 900	700 900	1	0.4	1	69004	2	1	81	C
MAY 23,87	MAY 22,87	800 900	700 1000	1	3.7	1	69005	2	1	107	C
MAY 25,87	MAY 24,87	800 900	2000 200	1	6.7	1	91699	2	1	94	C
MAY 27,87	MAY 26,87	800 700	2800 2400	1	6.6	1	69006	2	1	100	C
MAY 28,87	MAY 27,87	700 630	1000 1200	1	3.6	1	69007	2	1	100	C
MAY 29,87	MAY 28,87	630 630	1700 1900	1	33.0	9	69008	2	1	102	C
JUN 1,87	MAY 31,87	630 630	1530 2000	1	21.8	1	69009	2	1	99	C
JUN 3,87	JUN 2,87	800 900	1100 1500	1	0.5	1	56130	2	1	81	C
JUN 4,87	JUN 3,87	900 900	1100 1500	1	7.9	1	56131	2	1	101	C
JUN 6,87	JUN 5,87	900 900	1400 1900	1	5.5	1	56132	2	1	97	BC
JUN 8,87	JUN 7,87	800 850	1900 2400	1	10.7	1	56133	2	1	111	C
JUN 9,87	JUN 8,87	850 900	630 1000	1	7.5	1	56134	2	1	29	C
JUN 10,87	JUN 9,87	900 900	1100 1400	1	11.6	1	56135	2	1	100	C
JUN 12,87	JUN 11,87	900 1000	1900 600	1	6.8	1	56136	2	1	102	C
JUN 13,87	JUN 12,87	1000 900	100 700	1	3.0	1	56137	2	1	107	C
JUN 15,87	JUN 14,87	800 600	1400 1600	1	0.4	1	56138	2	1	117	C
JUN 17,87	JUN 16,87	800 600	1400 1600	1	23.0	9	56139	2	1	8	C
JUN 23,87	JUN 22,87	700 600	1000 2000	1	13.6	1	56140	2	1	100	T
JUN 25,87	JUN 24,87	900 900	1300 1500	1	0.7	1	56141	2	1	75	
JUN 29,87	JUN 28,87	900 900	1830 2000	1	2.3	*	56142	2	1	90	EG
JUN 30,87	JUN 29,87	900 900	2030 500	1	14.6	1	56143	2	1	103	EG
JUL 3,87	JUL 2,87	900 900	2130 2400	1	3.4	1	56144	2	1	97	EG
JUL 15,87	JUL 14,87	800 1000	1200 1700	1	14.6	1	56145	2	1	106	
JUL 19,87	JUL 18,87	800 900	1800 2000	1	36.6	1	56146	2	1	83	
JUL 25,87	JUL 24,87	800 900	1800 1900	1	3.0	1	56147	2	1	102	
AUG 3,87	AUG 2,87	700 630	1600 200	1	13.7	1	56148	2	1	104	
AUG 5,87	AUG 4,87	800 900	1400 1700	1	8.0	1	56149	2	1	92	
AUG 10,87	AUG 9,87	800 630	1200 1500	1	3.8	1	56150	2	1	101	
AUG 18,87	AUG 17,87	800 800	2100 2120	1	2.8	1	56151	2	1	100	
AUG 20,87	AUG 19,87	800 800	400 1700	1	3.2	1	56152	2	1	101	
AUG 22,87	AUG 21,87	800 800	630 800	1	6.2	1	56153	2	1	97	
AUG 23,87	AUG 22,87	800 800	800 1600	1	0.4	1	56154	2	1	50	C
AUG 26,87	AUG 25,87	800 1800	1200 1230	1	0.8	1	56155	2	1	70	
AUG 29,87	AUG 28,87	800 800	2115 800	1	****	1	56156	2	1	****	M
SEP 1,87	SEP 31,87	700 630	1330 1500	1	****	1	56157	2	1	****	M
SEP 9,87	SEP 8,87	600 900	700 1700	1	62.8	1	56158	2	1	104	M
SEP 10,87	SEP 9,87	800 900	1700 1900	1	1.4	1	56159	2	1	76	
SEP 12,87	SEP 11,87	800 630	2400 600	1	****	1	56160	2	1	****	
SEP 13,87	SEP 12,87	630 630	1000 600	1	****	1	56161	2	1	****	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM \$11

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L			
MAY 17.87	MAY 16.87	156.0	U	3.81	U	3.88	U	0.5010	U	4.45	U	0.85
MAY 21.87	MAY 20.87	21.0		*****		3.72		0.2260		7.55		1.05
MAY 23.87	MAY 22.87	255.0	>	3.35		3.50		0.3950		11.50		1.60
MAY 25.87	MAY 24.87	404.0	>	3.62		3.66		0.2600		10.75		1.43
MAY 27.87	MAY 26.87	427.0	D	3.70		3.70		0.2220		7.45		0.60
MAY 28.87	MAY 27.87	232.0		3.51		3.65		0.3530		6.65		1.25
MAY 29.87	MAY 28.87	2172.0		3.93		4.23		0.0832		2.25		0.25
MAY 31.87	MAY 30.87	1396.0		3.55		4.32		0.0632		1.75		0.15
JUN 1.87	JUN 2.87	26.0		*****		3.90		0.1810		6.45		0.10
JUN 4.87	JUN 3.87	493.0		3.56		3.66		0.2340		6.80		0.85
JUN 6.87	JUN 5.87	344.0		4.53		4.65		0.0361		0.85		0.10
JUN 8.87	JUN 7.87	763.0		4.13		4.21		0.0827		3.30		0.70
JUN 9.87	JUN 8.87	141.0		4.39		4.45		0.0557		1.25		0.30
JUN 10.87	JUN 9.87	744.0		4.75		4.89		0.0250		0.65		0.05
JUN 12.87	JUN 11.87	580.0		4.20		3.79		0.1590		5.45		0.70
JUN 13.87	JUN 12.87	206.0		4.20		4.26		0.0654		2.20		0.45
JUN 17.87	JUN 16.87	30.0		*****		4.31		0.0778		5.90		0.60
JUN 23.87	JUN 22.87	125.0		4.02		3.91		0.1460		5.05		0.85
JUN 27.87	JUN 26.87	879.0		3.70		3.67		0.2100		6.95		0.65
JUN 29.87	JUN 28.87	34.0		27.1		4.17		0.0822		1.70		0.60
JUN 30.87	JUN 29.87	133.0		3.56		3.56		*****		*****		*****
JUL 3.87	JUL 2.87	970.0		3.88		3.88		*****		*****		*****
JUL 4.87	JUL 3.87	212.0		3.66		3.66		*****		*****		*****
JUL 15.87	JUL 14.87	998.0		16.0		4.23		0.0624		2.10		0.18
JUL 19.87	JUL 18.87	1964.0		32.0		4.25		0.0998		4.15		0.36
JUL 24.87	JUL 24.87	198.0		4.14		4.30		0.1890		10.50		0.91
JUL 25.87	JUL 24.87	920.0		3.70		3.83		0.2050		7.55		0.62
AUG 3.87	AUG 2.87	75.0		3.72		4.23		0.0872		2.46		0.46
AUG 5.87	AUG 4.87	475.0		4.25		4.33		0.0710		2.80		0.09
AUG 10.87	AUG 9.87	248.0		4.19		4.00		0.1400		6.05		0.84
AUG 18.87	AUG 17.87	180.0		3.91		4.45		0.0646		5.95		0.91
AUG 20.87	AUG 19.87	208.0		4.42		4.71		0.0385		2.60		0.28
AUG 22.87	AUG 21.87	386.0		4.60		4.61		0.0664		1.30	!S	0.19
AUG 23.87	AUG 22.87	13.0	!S	*****		5.52		0.0209	!S	*****	!S	0.19
AUG 26.87	AUG 25.87	36.0		4.57		4.68		0.0409		1.15		0.21
AUG 28.87	AUG 27.87	1197.0		8.5		4.00		0.1350		5.25		0.74
SEP 1.87	SEP 31.87	396.0	D	50.0		4.96		0.0285		0.75	!G	0.07
SEP 9.87	SEP 8.87	4221.0		4.78		4.36		0.1200		5.50		0.34
SEP 10.87	SEP 9.87	69.0		*****		4.09		0.3500		13.60		1.96
SEP 12.87	SEP 11.87	480.0	>	3.49		3.57		0.2360		8.40		0.99
SEP 13.87	SEP 12.87	540.0		3.65		3.73						

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11										PAGE : 6		
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L				
MAY 17,87	MAY 16,87	U	U	U	U	U	U	U	0.1318			
MAY 21,87	MAY 20,87	1.04	0.20	0.170	0.030	0.030	0.145	U	0.1318			
MAY 23,87	MAY 22,87	0.58	0.45	0.155	0.050	0.050	0.060	0.060	0.1905			
MAY 25,87	MAY 24,87	0.54	0.34	0.0955	0.090	0.060	1.050	0.395	0.3162			
MAY 27,87	MAY 26,87	0.10	0.10	<T	<T	0.010	D	D	0.2188			
MAY 28,87	MAY 27,87	0.38	0.85	0.070	0.035	0.085	0.030	0.165	0.1995			
MAY 29,87	MAY 28,87	0.04	0.10	<T	0.080	D	0.350	0.2233	0.0589			
JUN 1,87	MAY 31,87	0.10	0.05	<T	0.010	<T	0.190	0.035	0.0479			
JUN 3,87	JUN 2,87	0.68	0.20	0.110	0.080	<T	0.020	B	0.1259			
JUN 4,87	JUN 3,87	0.06	0.20	0.110	0.040	0.160	0.035	0.005	0.2188			
JUN 6,87	JUN 5,87	0.10	0.05	0.010	0.030	0.025	D	0.115	0.0224			
JUN 8,87	JUN 7,87	0.50	0.10	0.065	0.035	0.005	0.595	0.0617	0.0355			
JUN 9,87	JUN 8,87	0.18	0.10	0.020	0.015	0.020	0.125	0.017	0.0355			
JUN 10,87	JUN 9,87	0.02	0.01	<M	<M	0.015	0.010	0.0129	D			
JUN 12,87	JUN 11,87	0.20	0.15	<T	0.005	0.025	0.220	0.01622				
JUN 13,87	JUN 12,87	0.30	<T	0.035	0.025	0.065	0.210	0.0550				
JUN 17,87	JUN 16,87	IIS *****	0.90	IIS *****	IIS *****	IIS *****	<M	0.005	0.00676			
JUN 23,87	JUN 22,87	IIS *****	0.90	IIS *****	IIS *****	IIS *****	<T	0.025	0.0676			
JUN 27,87	JUN 26,87	0.12	0.90	<T	0.010	0.025	0.010	0.2138				
JUN 29,87	JUN 28,87	IIS *****	0.90	IIS *****	IIS *****	IIS *****	<T	0.025	0.0676			
JUN 30,87	JUN 29,87	IIS *****	0.90	IIS *****	IIS *****	IIS *****	<T	0.025	0.0676			
JUL 3,87	JUL 2,87	IIS *****	IIS *****	IIS *****	IIS *****	IIS *****	<T	0.025	0.0676			
JUL 4,87	JUL 3,87	IIS *****	IIS *****	IIS *****	IIS *****	IIS *****	<T	0.025	0.0676			
JUL 15,87	JUL 14,87	0.14	<T	0.025	0.010	0.015	0.010	0.0360				
JUL 19,87	JUL 18,87	0.34	0.13	0.035	0.005	0.020	0.385	0.0562				
JUL 25,87	JUL 24,87	1.38	0.17	0.180	0.045	0.040	0.950	0.1349				
AUG 3,87	AUG 2,87	0.10	0.17	<T	0.010	0.015	0.435	0.1479				
AUG 5,87	AUG 4,87	0.18	0.14	0.020	0.025	<T	0.210	0.0501				
AUG 10,87	AUG 9,87	0.14	0.09	0.025	0.030	<M	0.005	0.0468				
AUG 18,87	AUG 17,87	0.84	0.24	0.165	0.025	0.055	0.325	0.1000				
AUG 20,87	AUG 19,87	0.98	IIS *****	0.125	0.030	0.020	0.165	0.0380				
AUG 22,87	AUG 21,87	<T	IIS *****	0.005	0.015	<M	0.040	0.0195	D			
AUG 23,87	AUG 22,87	0.28	0.14	0.025	0.020	0.030	0.015	0.0245				
AUG 26,87	AUG 25,87	0.76	IIS *****	0.155	0.035	0.025	0.010	0.0030				
AUG 29,87	AUG 28,87	0.08	0.01	0.015	0.010	<M	0.030	0.0209				
SEP 1,87	AUG 31,87	0.24	0.31	D	0.040	<T	0.470	0.1000				
SEP 9,87	SEP 8,87	0.02	<M	0.005	0.005	<T	0.035	0.0110				
SEP 10,87	SEP 9,87	0.22	0.15	<T	0.020	0.005	0.295	0.0813				
SEP 12,87	SEP 11,87	0.32	0.35	0.050	0.060	0.035	1.450	0.2692				
SEP 13,87	SEP 12,87	0.06	0.25	<T	0.010	0.030	0.235	0.1862				

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEN #11

PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
SEP 14,87	SEP 13,87	630 630	1100 1600	1	MMHM	1	54162	2	1	MMHM	
SEP 18,87	SEP 17,87	800 900	1700 900	1	MMHM	1	54163	2	1	MMHM	
SEP 19,87	SEP 18,87	900 630	900 2100	1	6.4	1	54164	2	1	94	
SEP 20,87	SEP 19,87	630 630	1000 500	1	20.6	1	54165	2	1	93	M
SEP 23,87	SEP 22,87	630 630	2300 500	1	2.6	1	54166	2	1	97	M
SEP 24,87	SEP 23,87	630 630	2300 500	1	3.8	1	54167	2	1	95	
SEP 28,87	SEP 27,87	630 730	2200 400	1	2.9	1	54168	2	1	95	
SEP 30,87	SEP 29,87	700 615	2000 400	1	15.7	1	54169	2	1	96	
OCT 3,87	OCT 2,87	700 900	1000 2100	1	24.9	1	54170	2	1	100	
OCT 7,87	OCT 6,87	800 900	1900 600	1	11.2	1	54171	2	1	93	
OCT 8,87	OCT 7,87	900 630	1400 600	1	4.6	1	54172	2	1	83	M
OCT 9,87	OCT 8,87	630 900	800 1600	1	2.0	1	54173	2	1	72	
OCT 10,87	OCT 9,87	900 800	1000 1200	1	0.4	1	54174	2	1	MMHM	E
OCT 18,87	OCT 17,87	800 900	1900 400	1	2.0	1	54175	2	1	90	N
OCT 21,87	OCT 20,87	800 1000	1800 2300	1	9.3	1	54176	2	1	101	
OCT 23,87	OCT 22,87	800 600	100 600	1	5.0	1	54177	2	1	185	N
OCT 24,87	OCT 23,87	600 700	600 1400	1	6.0	2	54178	2	1	60	
OCT 25,87	OCT 24,87	700 800	2300 500	1	7.4	2	54179	2	1	120	M
OCT 26,87	OCT 25,87	800 800	1400 2300	1	7.2	2	54180	2	1	114	
OCT 31,87	OCT 30,87	800 800	1400 2200	1	1.7	2	54181	2	1	180	N
NOV 3,87	NOV 2,87	800 1000	200 1000	1	4.0	2	54182	2	1	119	
NOV 4,87	NOV 3,87	1000 1000	1000 1300	1	3.0	2	54183	2	1	112	
NOV 6,87	NOV 5,87	600 900	1700 2400	3	8.7	2	54184	2	1	117	C
NOV 7,87	NOV 6,87	900 1000	2000 500	2	1.8	2	54185	2	1	162	
NOV 9,87	NOV 8,87	500 1000	600 400	1	19.8	2	54186	2	1	100	HCN
NOV 18,87	NOV 17,87	600 900	630 2300	1	19.0	2	54187	2	1	U	
NOV 20,87	NOV 19,87	900 900	100 600	1	0.3	2	54189	2	1	249	M
NOV 26,87	NOV 25,87	900 900	1000 100	3	33.4	2	54190	2	1	MMHM	
NOV 30,87	NOV 29,87	600 900	800 400	1	54.4	2	54191	2	1	MMHM	G
DEC 2,87	DEC 1,87	700 630	1600 630	2	1.0	2	54193	2	1	MMHM	EIK
DEC 4,87	DEC 3,87	630 630	630 630	2	0.9	2	54194	2	1	71	
DEC 5,87	DEC 4,87	630 630	630 1000	2	1.0	2	54195	2	1	MMHM	EIK
DEC 9,87	DEC 8,87	800 800	1000 300	1	0.3	2	54196	2	1	119	
DEC 11,87	DEC 10,87	800 700	1600 400	1	4.8	2	54197	2	1	MMHM	GE
DEC 17,87	DEC 15,87	630 630	1200 1500	3	36.4	2	54198	2	1	88	Y2

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H ₂ TO PH _{0.5} MG/L	TOTAL H ₂ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 14,87	SEP 13,87	471.0	D	3.94	4.05	*****	0.1280	D	0.68
SEP 16,87	SEP 17,87	56.0	66.0	*****	3.82	*****	0.2090	8.20	1.10
SEP 19,87	SEP 18,87	507.0	11R	4.56	4.69	*****	0.0419	1.35	0.10
SEP 20,87	SEP 19,87	1238.0	7.0	4.49	4.82	*****	0.0338	0.70	0.12
SEP 23,87	SEP 22,87	162.0	18.0	4.49	4.50	*****	0.0574	1.70	0.57
SEP 24,87	SEP 23,87	233.0	13.0	4.51	4.57	*****	0.0507	1.70	<N
SEP 28,87	SEP 27,87	147.0	48.0	3.99	4.09	*****	0.1270	4.85	1.00
SEP 30,87	SEP 29,87	975.0	33.0	4.13	4.23	*****	0.0975	3.40	0.51
OCT 3,87	OCT 2,87	1605.0	15.0	4.52	4.67	*****	0.0466	2.05	0.34
OCT 7,87	OCT 6,87	261.0	36.0	4.15	4.16	*****	0.1050	2.80	0.71
OCT 9,87	OCT 8,87	24.0	19.0	4.31	4.41	*****	0.0649	1.80	0.38
OCT 9,87	OCT 8,87	93.0	11R	4.54	4.69	*****	0.0414	1.25	0.08
OCT 10,87	OCT 9,87	*****	*****	*****	*****	*****	*****	*****	*****
OCT 16,87	OCT 17,87	116.0	89.0	3.62	3.64	*****	0.2670	6.70	2.20
OCT 21,87	OCT 20,87	608.0	65.0	3.76	3.78	*****	0.2010	5.35	1.60
OCT 23,87	OCT 22,87	596.0	31.0	4.03	4.09	*****	0.1030	2.35	0.79
OCT 24,87	OCT 23,87	233.0	40.0	3.87	4.02	*****	0.1190	3.05	1.23
OCT 25,87	OCT 24,87	571.0	60.0	3.73	3.83	*****	0.1780	4.80	1.57
OCT 26,87	OCT 27,87	527.0	22.0	4.07	4.22	*****	0.0823	1.50	0.57
OCT 28,87	OCT 30,87	197.0	70.0	3.72	3.79	*****	0.1960	3.60	2.80
NOV 3,87	NOV 2,87	307.0	69.0	3.66	3.75	*****	0.2080	5.60	1.30
NOV 3,87	NOV 3,87	216.0	42.0	3.89	4.00	*****	0.1270	4.45	0.82
NOV 6,87	NOV 5,87	650.0	7.0	4.53	4.70	*****	0.0364	0.95	0.20
NOV 7,87	NOV 6,87	72.0	<T	*****	5.49	*****	0.0183	<T	0.01
NOV 9,87	NOV 8,87	1271.0	26.0	4.01	4.22	*****	0.0869	1.95	0.73
NOV 16,87	NOV 15,87	830.0	9.0	4.43	4.68	*****	0.0363	0.90	0.25
NOV 20,87	NOV 19,87	48.0	83.0	4.03	3.73	*****	0.2370	3.40	3.00
NOV 30,87	NOV 29,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 30,87	NOV 29,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 2,87	DEC 1,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 4,87	DEC 3,87	41.0	40.0	*****	4.11	*****	0.1190	1.10	1.08
DEC 5,87	DEC 4,87	23.0	21.0	*****	4.41	*****	0.0804	1.50	0.38
DEC 11,87	DEC 10,87	*****	*****	*****	4.39	*****	*****	*****	*****
DEC 17,87	DEC 15,87	2066.0	19.5	*****	4.39	*****	0.0645	1.15	0.50

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 14-87	SEP 13-87	<T	0.08	<T	0.010	<T	0.015	0.0891
SEP 18-87	SEP 17-87	0.24	1.86	<T	0.045	<W	0.050	0.1514
SEP 19-87	SEP 18-87	<W	0.04	<W	0.005	<T	0.050	0.1514
SEP 20-87	SEP 19-87	<W	0.02	<W	0.010	<T	0.015	0.0204
SEP 23-87	SEP 22-87	0.44	0.13	<W	0.005	<T	0.010	0.0151
SEP 24-87	SEP 23-87	<T	0.08	<T	0.020	<T	0.010	0.0316
SEP 28-87	SEP 27-87	0.82	0.25	<T	0.015	<T	0.020	0.0269
SEP 30-87	SEP 29-87	0.22	0.14	<T	0.095	0.090	0.370	0.0813
OCT 3-87	OCT 2-87	0.42	0.11	<T	0.020	0.025	0.260	0.0549
OCT 7-87	OCT 6-87	0.14	0.13	<T	0.035	<T	0.190	0.0216
OCT 8-87	OCT 7-87	0.04	0.15	<T	0.035	<W	0.225	0.0692
OCT 9-87	OCT 8-87	<T	0.06	<T	0.025	<W	0.075	0.0389
OCT 10-87	OCT 9-87	0.06	0.06	<T	0.030	0.030	0.005	0.0204
OCT 18-87	OCT 17-87	0.42	0.35	0.060	0.080	0.055	0.535	0.2291
OCT 21-87	OCT 20-87	0.22	0.26	0.040	0.085	0.025	0.735	0.1660
OCT 23-87	OCT 22-87	<T	0.00	<T	0.020	<T	0.735	0.0813
OCT 24-87	OCT 23-87	0.34	0.17	0.060	0.060	0.025	0.275	0.0955
OCT 25-87	OCT 24-87	0.46	0.27	0.050	0.065	0.045	0.465	0.1479
OCT 28-87	OCT 27-87	<T	0.08	<T	0.010	<T	0.505	0.0603
OCT 31-87	OCT 30-87	1.10	0.58	0.175	0.040	0.035	0.070	0.1622
NOV 3-87	NOV 2-87	0.22	0.45	0.035	0.030	0.045	0.240	0.1778
NOV 4-87	NOV 3-87	0.20	0.22	0.030	0.040	0.060	0.495	0.1000
NOV 6-87	NOV 5-87	<T	0.06	<W	0.005	<W	0.135	0.0200
NOV 7-87	NOV 6-87	<T	0.10	<T	0.010	<T	0.495	0.0032
NOV 9-87	NOV 8-87	0.12	0.25	<T	0.015	<T	0.005	0.0603
NOV 13-87	NOV 12-87	0.14	0.35	0.005	0.140	0.015	0.335	0.0209
NOV 20-87	NOV 19-87	0.94	0.49	0.160	0.040	0.070	0.185	0.1862
NOV 26-87	NOV 25-87	0.26	0.06	0.035	0.035	0.070	0.415	0.1862
NOV 30-87	NOV 29-87	0.26	0.06	0.035	0.035	0.070	0.415	0.1862
DEC 2-87	DEC 1-87	0.26	0.06	0.035	0.035	0.070	0.415	0.1862
DEC 4-87	DEC 3-87	0.26	0.06	0.035	0.035	0.070	0.415	0.1862
DEC 5-87	DEC 4-87	0.26	0.06	0.035	0.035	0.070	0.415	0.1862
DEC 9-87	DEC 8-87	0.26	0.06	0.035	0.035	0.070	0.415	0.1862
DEC 11-87	DEC 10-87	0.26	0.06	0.035	0.035	0.070	0.415	0.1862
DEC 17-87	DEC 15-87	<T	0.06	<T	0.005	<T	0.015	0.0407

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEN										810		PAGE : 1	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE		
												01-STD.	02-NIPHER
03-COMP/04-OTHER													
JAN 3-87	JAN 2-87	800	800	1400 2100	2	5.8	2	91654	2	1	***	IKE	
JAN 10-87	JAN 9-87	800	800	2100 700	2	4.8	2	91656	2	1	94		
JAN 13-87	JAN 12-87	800	800	900 1500	2	2.5	2	91658	2	1	41	N	
JAN 17-87	JAN 16-87	800	800	1000 1600	2	2.2	2	91660	2	1	122	N	
JAN 19-87	JAN 18-87	800	800	1000 1630	2	9.6	2	91662	2	1	34	N	
JAN 21-87	JAN 20-87	800	800	***	***	2	1.6	2	91664	2	40	N	
JAN 23-87	JAN 22-87	800	800	1500 2100	2	10.1	2	91666	2	1	41	N	
JAN 31-87	JAN 23-87	800	800	800 1000	2	11.8	2	91669	2	1	33	NZ	
FEB 3-87	FEB 2-87	800	800	800 800	2	1.6	2	91671	2	1	99	C	
FEB 5-87	FEB 3-87	800	800	800 1800 2030	2	2.5	2	91673	2	1	81	Y2	
FEB 9-87	FEB 8-87	800	800	1400 2200	2	21.4	2	54119	2	1	56		
FEB 11-87	FEB 10-87	800	800	800 1030	2	0.2	2	91676	2	1	187	N	
MAR 1-87	FEB 28-87	800	800	1200 800	1	18.1	2	57071	2	1	89		
MAR 2-87	MAR 1-87	800	800	800 1000	1	19.8	2	57073	2	1	91		
MAR 26-87	MAR 25-87	800	800	1400 100	1	5.5	2	57075	2	1	148	NT	
MAR 31-87	MAR 30-87	800	800	1200 800	1	29.2	2	57077	2	1	100	T	
APR 1-87	MAR 31-87	800	800	800 1500	3	14.2	2	57079	2	1	57		
APR 3-87	APR 1-87	800	800	***	***	7.2	2	57081	2	1	53	Y2	
APR 4-87	APR 3-87	800	800	8400 800	1	9.2	2	57083	2	1	71		
APR 5-87	APR 4-87	800	800	800 600	1	16.6	2	57085	2	1	127	N	
APR 11-87	APR 10-87	800	800	***	***	2.2	2	57085	2	1	262	NZ	
APR 15-87	APR 14-87	800	800	200 500	1	***	2	94358	2	1	***		
APR 24-87	APR 23-87	800	800	1800 100	1	12.6	2	94356	2	1	92	P	
APR 28-87	APR 27-87	800	800	1200 800	1	4.3	2	91686	2	1	108		
APR 29-87	APR 28-87	800	800	800 900	1	0.5	2	48487	2	1	98		
APR 30-87	APR 29-87	800	800	1100 1500	1	5.1	2	91689	2	1	103	FE	
MAY 11-87	MAY 10-87	800	800	530 800	1	1.0	1	91690	2	1	101	E	
MAY 12-87	MAY 11-87	800	800	800 500	1	4.2	2	91693	2	1	101		
MAY 15-87	MAY 14-87	800	800	1800 200	1	14.6	1	91694	2	1	96		
MAY 17-87	MAY 16-87	800	800	2300 400	1	2.0	1	91696	2	1	77		
MAY 27-87	MAY 26-87	800	800	1800 2300	1	4.9	1	91702	2	1	97	TC	
MAY 28-87	MAY 27-87	800	800	1000 600	1	3.8	1	91704	2	1	98		
MAY 29-87	MAY 28-87	800	800	1650 1800	1	14.7	1	91706	2	1	***	E	
JUN 1-87	MAY 31-87	800	800	1700 1830	1	6.6	1	91708	2	1	101		
JUN 2-87	JUN 1-87	800	800	245 430	1	14.1	1	91710	2	1	98	N	
JUN 4-87	JUN 3-87	800	800	930 1600	1	12.7	1	91712	2	1	93	T	
JUN 8-87	JUN 7-87	800	800	500 1200	1	6.2	1	91714	2	1	102		
JUN 9-87	JUN 8-87	800	800	830 1030	1	7.4	1	91716	2	1	90	J	
JUN 10-87	JUN 9-87	800	800	1000 1800	1	4.2	1	91718	2	1	94		
JUN 12-87	JUN 11-87	800	800	1900 2400	1	5.7	1	91720	2	1	92		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AERO-CHEM				#10	PAGE : 2				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 3:87	JAN 2:87	*****	*****	*****	*****	*****	*****	*****	*****
JAN 10:87	JAN 9:87	290.0	49.7	3.94	4.10	*****	0.1140	2.65	1.26
JAN 13:87	JAN 12:87	66.0	51.1	*****	4.09	*****	0.1200	4.20	0.89
JAN 17:87	JAN 16:87	173.0	100.0	3.73	3.77	*****	0.2290	4.75	2.75
JAN 19:87	JAN 18:87	210.0	22.6	4.37	4.47	*****	0.0606	1.25	0.55
JAN 21:87	JAN 20:87	42.0	68.4	*****	3.92	*****	0.1660	2.85	1.68
JAN 23:87	JAN 22:87	268.0	14.0	4.55	4.60	*****	0.0453	0.30	0.41
JAN 31:87	JAN 30:87	254.0	50.5	4.02	4.01	*****	0.1310	3.55	1.08
FEB 5:87	FEB 4:87	102.0	5.6	*****	4.08	*****	0.1160	3.40	1.99
FEB 8:87	FEB 7:87	131.0	15.2	4.69	4.76	*****	0.0391	1.25	0.32
FEB 9:87	FEB 8:87	771.0	37.1	4.24	4.28	*****	0.0815	2.80	1.12
FEB 11:87	FEB 10:87	24.0	23.9	*****	4.39	*****	0.0661	0.95	0.77
MAR 1:87	FEB 28:87	1042.0	14.5	*****	4.53	*****	0.0409	1.20	0.28
MAR 2:87	MAR 1:87	1163.0	13.5	*****	4.52	*****	0.0409	1.05	0.21
MAR 26:87	MAR 25:87	522.0	29.5	*****	4.19	*****	0.0435	2.20	0.66
MAR 31:87	MAR 30:87	1889.0	25.5	*****	4.24	*****	0.0513	2.30	0.37
APR 1:87	MAR 31:87	521.0	13.0	*****	4.71	*****	0.0732	1.70	0.11
APR 3:87	APR 1:87	246.0	29.5	*****	4.24	*****	0.0721	2.60	0.65
APR 4:87	APR 3:87	420.0	9.5	*****	4.72	*****	0.0291	0.65	0.14
APR 5:87	APR 4:87	1356.0	9.5	*****	4.71	*****	0.0295	0.65	0.14
APR 11:87	APR 5:87	370.0	10.1	4.79	4.87	*****	0.0299	1.00	0.16
APR 15:87	APR 14:87	81.0	51.5	4.18	4.12	*****	0.1040	6.45	1.53
APR 24:87	APR 23:87	876.0	54.8	3.99	3.88	*****	0.1370	5.65	0.87
APR 26:87	APR 27:87	256.0	58.2	4.06	4.12	*****	0.1070	4.60	2.41
APR 28:87	APR 28:87	*****	*****	*****	*****	*****	0.0211	3.15	0.52
APR 30:87	APR 29:87	336.0	19.0	5.56	6.68	*****	0.1170	5.05	0.59
MAY 11:87	MAY 10:87	273.0	*****	4.51	4.06	*****	0.0540	8.45	1.80
MAY 12:87	MAY 11:87	901.0	43.8	4.51	4.69	*****	0.3010	11.95	1.15
MAY 15:87	MAY 14:87	99.0	47.0	4.39	3.51	*****	0.1420	5.80	1.05
MAY 17:87	MAY 16:87	306.0	100.0	3.51	3.87	*****	0.0386	2.10	0.30
MAY 28:87	MAY 27:87	240.0	58.8	3.95	3.87	*****	0.1450	5.70	0.80
MAY 29:87	MAY 28:87	*****	*****	*****	*****	*****	0.0290	6.40	1.10
JUN 1:87	MAY 31:87	430.0	15.9	4.51	4.63	*****	0.0480	2.50	0.85
JUN 2:87	JUN 1:87	892.0	57.2	3.92	3.83	*****	0.0243	2.50	0.55
JUN 4:87	JUN 3:87	765.0	66.4	3.73	3.70	*****	0.0397	1.35	0.05
JUN 8:87	JUN 7:87	407.0	23.5	4.46	4.62	*****	0.1730	6.60	0.90
JUN 9:87	JUN 8:87	427.0	16.4	5.26	5.62	*****	*****	*****	*****
JUN 10:87	JUN 9:87	254.0	12.3	4.49	4.63	*****	0.0397	1.35	0.05
JUN 12:87	JUN 11:87	539.0	65.9	3.80	3.81	*****	0.1730	6.60	0.90

STATION NAME : RAILTON/DAILY/AEROCHEN										#10	PAGE 1 3	
RENOVAL DATE	EXPOSURE DATE	CALCIUM	CHLORIDE	MAGNESIUM	POTASSIUM	SODIUM	AMMONIUM	FREE H ₂				
		MG/L	MG/L	MG/L	MG/L	MG/L	AS N	LAB				
JAN 31-87	JAN 2-87	*****	*****	*****	*****	*****	*****	*****				
JAN 10-87	JAN 9-87	0.26	0.31	0.030	0.095	0.115	0.570	0.0794				
JAN 13-87	JAN 12-87	<T	0.23	0.045	0.085	0.080	0.775	0.0013				
JAN 17-87	JAN 16-87	0.26	0.50	0.035	0.045	0.115	1.650	0.1698				
JAN 19-87	JAN 18-87	0.10	0.18	<T	0.015	0.040	0.300	0.0339				
JAN 21-87	JAN 20-87	IIS	*****	IIS	IIS	IIS	0.515	0.1201				
JAN 23-87	JAN 22-87	0.10	0.12	<T	<T	0.035	<T	0.0251				
FEB 3-87	FEB 2-87	0.16	0.27	<T	<T	0.120	0.565	0.0977				
FEB 5-87	FEB 3-87	0.78	0.41	0.070	0.075	0.185	1.250	0.0832				
FEB 9-87	FEB 8-87	0.18	0.61	<T	<T	0.375	0.260	0.0174				
FEB 11-87	FEB 8-87	0.08	0.38	<T	0.025	0.070	1.200	0.0525				
FEB 11-87	FEB 10-87	I/A	0.26	I/A	I/A	I/A	0.220	0.0407				
MAR 1-87	FEB 28-87	<T	0.06	<T	0.010	0.050	0.170	0.0295				
MAR 2-87	MAR 1-87	<T	0.04	<T	0.005	<T	0.090	0.0302				
MAR 26-87	MAR 25-87	0.22	0.11	0.025	<W	0.030	0.275	0.0646				
MAR 30-87	MAR 30-87	0.10	0.23	0.025	<T	0.130	0.240	0.0575				
MAR 31-87	MAR 31-87	0.18	D	0.025	<T	0.205	D	0.0575				
APR 3-87	APR 1-87	0.16	0.15	<T	0.015	0.035	0.575	0.0575				
APR 4-87	APR 3-87	<T	0.02	<T	0.015	0.005	0.030	0.0191				
APR 5-87	APR 4-87	<T	0.02	<T	<W	0.105	0.020	0.0195				
APR 11-87	APR 5-87	0.87	0.06	<T	0.020	0.050	1.110	0.0135				
APR 15-87	APR 14-87	1.50	0.28	<T	0.085	0.075	1.260	0.0759				
APR 24-87	APR 23-87	0.44	0.14	0.045	0.045	0.040	0.460	0.1318				
APR 26-87	APR 27-87	1.52	0.43	0.265	0.270	0.330	1.660	0.0759				
APR 29-87	APR 28-87	*****	*****	*****	*****	*****	*****	*****				
APR 30-87	APR 29-87	0.70	0.07	0.100	0.060	0.060	1.420	0.0002	UG			
MAY 11-87	MAY 10-87	I/S	*****	I/S	*****	*****	*****	*****				
MAY 12-87	MAY 11-87	D	0.14	0.035	D	<T	0.465	0.0871	I/S			
MAY 15-87	MAY 14-87	0.28	0.31	0.320	0.150	0.075	2.150	0.0204				
MAY 17-87	MAY 16-87	1.98	0.25	0.035	0.100	0.055	0.760	0.3090				
MAY 27-87	MAY 26-87	0.44	0.25	0.065	0.060	0.050	0.725	0.1349				
MAY 28-87	MAY 27-87	0.62	0.25	0.065	0.060	0.050	0.725	0.1349				
MAY 29-87	MAY 28-87	*****	*****	*****	*****	*****	*****	*****				
MAY 31-87	MAY 31-87	0.16	<T	<T	0.065	0.015	0.545	0.0234				
JUN 2-87	JUN 1-87	0.26	0.20	0.045	0.040	0.030	0.660	0.1479				
JUN 4-87	JUN 3-87	0.18	<T	0.015	0.045	0.030	0.850	0.1995				
JUN 8-87	JUN 7-87	0.54	0.15	0.065	0.110	0.015	0.805	0.0240				
JUN 9-87	JUN 8-87	0.44	0.10	0.075	0.055	0.015	0.950	0.0015	UG			
JUN 10-87	JUN 9-87	<T	<W	0.075	0.050	0.020	0.034	0.0234				
JUN 12-87	JUN 11-87	0.06	0.01	0.010	0.030	0.040	0.090					
JUN 13-87	JUN 12-87	0.48	0.20	0.060	0.110	0.020	0.470	0.1564				

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEN										810	PAGE : 4	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE	
										01-STD. 02-NIPHER	01-HOE 03-AES	
										03-COMP/04-OTHER		
JUN 29,87	JUN 26,87	800	800	1400	1	1	91722	2	1	117	Z	
JUN 30,87	JUN 29,87	800	800	1100	1400	1	91724	2	1	104		
JUN 30,87	JUN 2,87	800	800	2300	200	1	91726	2	1	69	Z	
JUL 12,87	JUL 3,87	800	800	1200	1330	1	91728	2	1	95		
JUL 15,87	JUL 14,87	800	800	1200	1330	1	91730	2	1	83	C	
JUL 19,87	JUL 18,87	800	800	1200	1330	1	91732	2	1	91		
JUL 26,87	JUL 25,87	800	800	1200	2200	1	91734	2	1	98		
AUG 3,87	AUG 2,87	800	800	1000	2200	1	91736	2	1	101	H	
AUG 5,87	AUG 4,87	800	800	1430	1530	1	91738	2	1	101		
AUG 8,87	AUG 7,87	800	800	1630	1700	1	91740	2	1	98	EX	
AUG 10,87	AUG 9,87	800	800	1400	1430	1	91742	2	1	98		
AUG 20,87	AUG 19,87	800	800	400	730	1	91744	2	1	68		
AUG 22,87	AUG 21,87	800	800	2100	300	1	91746	2	1	95	H	
AUG 29,87	AUG 28,87	800	800	2100	300	1	91748	2	1	97		
SEP 1,87	SEP 31,87	800	800	800	300	1	91750	2	1	100		
SEP 9,87	SEP 8,87	800	800	800	300	1	91752	2	1	86		
SEP 13,87	SEP 12,87	800	800	800	300	1	91754	2	1	55		
SEP 14,87	SEP 13,87	800	800	800	300	1	91756	2	1	92	WVZ	
SEP 20,87	SEP 18,87	800	800	810	2400	1	91758	2	1	92		
SEP 26,87	SEP 25,87	800	800	2130	200	1	91760	2	1	95		
SEP 30,87	SEP 29,87	800	800	1830	200	1	91762	2	1	104	H	
OCT 1,87	SEP 30,87	800	800	1400	1700	1	91764	2	1	99		
OCT 3,87	OCT 2,87	800	800	900	2000	1	91766	2	1	99		
OCT 7,87	OCT 6,87	800	800	1900	800	1	91770	2	1	92		
OCT 8,87	OCT 7,87	800	800	800	945	1	91772	2	1	92	E	
OCT 9,87	OCT 8,87	800	800	820	900	1	91774	2	1	62	N	
OCT 16,87	OCT 17,87	800	800	1800	2400	1	91776	2	1	96		
OCT 21,87	OCT 20,87	800	800	1700	2400	1	91778	2	1	97	Y3	
OCT 25,87	OCT 22,87	800	800	1400	2100	1	91780	2	1	73		
OCT 26,87	OCT 27,87	800	800	430	1500	1	91782	2	1	84	Y2	
NOV 4,87	NOV 2,87	800	800	2000	2100	1	91784	2	1	94		
NOV 5,87	NOV 4,87	800	800	800	2100	1	91786	2	1	85	Y3	
NOV 8,87	NOV 5,87	800	800	800	2100	1	91788	2	1	92		
NOV 18,87	NOV 17,87	800	800	1100	2400	1	91790	2	1	70		
NOV 19,87	NOV 18,87	800	800	800	2100	1	91792	2	1	92		
NOV 26,87	NOV 25,87	800	800	900	1500	1	91794	2	1	85		
NOV 30,87	NOV 29,87	800	800	100	2300	1	91796	2	1	98		
DEC 10,87	DEC 9,87	800	800	1700	2300	1	91798	2	1	76		
DEC 13,87	DEC 12,87	800	800	900	1600	1	91799	2	1	81		
DEC 16,87	DEC 15,87	800	800	1030	2300	1	91801	2	1	23	QF	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEN				#10	PAGE : 5				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PHB.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 29-87	JUN 26-87	1016.0	81.6	3.78	3.74	*****	0.2070	9.15	1.10
JUN 30-87	JUN 29-87	45.0	> 100.0	*****	3.60	*****	0.2020	16.10	2.95
JUL 1-87	JUL 2-87	610.0	49.0	3.95	3.99	*****	0.1410	3.65	0.78
JUL 12-87	JUL 3-87	239.0	100.0	3.65	3.69	*****	0.2750	11.60	1.16
JUL 15-87	JUL 14-87	1117.0	D	4.29	4.36	*****	0.0692	2.45	0.31
JUL 19-87	JUL 18-87	112.0	50.0	4.27	4.31	*****	0.0853	10.00	0.99
JUL 26-87	JUL 25-87	1165.0	22.0	4.42	4.52	*****	0.3200	3.95	0.42
AUG 3-87	AUG 2-87	493.0	100.0	3.63	3.67	*****	0.2890	10.90	1.20
AUG 5-87	AUG 4-87	1074.0	34.0	4.11	4.14	*****	0.1010	3.80	0.95
AUG 8-87	AUG 7-87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 10-87	AUG 9-87	380.0	21.0	4.25	4.33	*****	0.0721	2.55	0.17
AUG 20-87	AUG 19-87	44.0	38.0	*****	UG	*****	0.0206	9.30	1.41
AUG 22-87	AUG 21-87	746.0	15.0	4.35	4.50	*****	0.0586	2.00	0.26
AUG 29-87	AUG 28-87	1744.0	5.0	4.90	5.04	*****	0.0298	0.65	0.11
SEP 1-87	AUG 31-87	751.0	45.0	3.98	4.04	*****	0.1280	5.35	0.55
SEP 9-87	SEP 8-87	3042.0	5.0	4.82	4.94	*****	0.0299	0.75	0.07
SEP 13-87	SEP 12-87	675.0	84.0	3.70	3.76	*****	0.2370	9.35	0.97
SEP 14-87	SEP 13-87	46.0	> 100.0	*****	3.64	*****	0.3070	10.00	1.94
SEP 20-87	SEP 18-87	1830.0	13.0	4.50	4.71	*****	0.0432	1.20	0.17
SEP 28-87	SEP 27-87	419.0	14.0	4.89	4.93	*****	0.0335	2.35	0.45
SEP 30-87	SEP 29-87	674.0	46.0	4.00	4.08	*****	0.1200	5.10	0.58
OCT 1-87	SEP 30-87	335.0	8.0	4.84	5.04	*****	0.0288	1.15	0.26
OCT 3-87	OCT 2-87	747.0	29.0	4.41	4.51	*****	0.0581	3.35	0.49
OCT 7-87	OCT 6-87	673.0	38.0	4.00	4.13	*****	0.1080	2.30	0.53
OCT 9-87	OCT 7-87	1411.0	16.0	4.36	4.47	*****	0.0565	1.60	0.24
OCT 9-87	OCT 8-87	*****	IRE	*****	IRE	*****	IRE	IRE	IRE
OCT 16-87	OCT 17-87	317.0	91.0	3.65	3.74	*****	0.2390	7.80	2.20
OCT 21-87	OCT 20-87	197.0	93.0	3.62	3.74	*****	0.2410	7.10	2.22
OCT 25-87	OCT 24-87	1371.0	55.0	*****	4.02	*****	0.1370	4.10	1.24
OCT 28-87	OCT 27-87	469.0	34.5	*****	4.20	*****	0.0970	2.55	0.74
NOV 4-87	NOV 2-87	795.0	58.0	3.96	4.00	*****	0.1440	4.80	1.20
NOV 5-87	NOV 4-87	266.0	15.0	4.54	4.71	*****	0.0463	1.60	0.46
NOV 8-87	NOV 5-87	1310.0	25.5	*****	4.49	*****	0.0648	2.70	0.64
NOV 18-87	NOV 17-87	1927.0	16.0	4.40	4.59	*****	0.0491	1.40	0.31
NOV 19-87	NOV 18-87	91.0	33.0	*****	4.44	*****	0.0729	3.90	1.75
NOV 26-87	NOV 25-87	474.0	8.0	*****	4.61	*****	0.0406	0.90	0.25
NOV 30-87	NOV 29-87	4296.0	9.5	*****	4.76	*****	0.0415	0.90	0.25
DEC 10-87	DEC 9-87	572.0	26.0	*****	4.28	*****	0.0808	2.50	0.35
DEC 13-87	DEC 12-87	356.0	37.0	*****	4.21	*****	0.0973	3.00	1.00
DEC 16-87	DEC 15-87	412.0	16.0	*****	4.50	*****	0.0545	1.10	0.38

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

PAGE : 6

#10

STATION NAME : RAILTON/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 29,87	JUN 26,87	0.80	0.25	0.090	0.110	0.055	0.790	0.1820
JUN 30,87	JUN 29,87	ITS *****	0.50	ITS *****	ITS *****	0.055	1.900	0.1565
JUN 31,87	JUN 3,87	<T	0.63	<T	0.615	<T	0.235	0.1023
JUL 12,87	JUL 3,87	0.72	0.32	0.100	0.105	<T	0.950	0.2062
JUL 15,87	JUL 14,87	<T	5.87	<T	6.510	<T	0.100	0.0437
JUL 19,87	JUL 18,87	0.06	0.10	0.230	0.240	0.035	1.450	0.0490
JUL 26,87	JUL 25,87	1.82	0.13	0.070	0.030	<T	0.505	0.0302
JUL 26,87	JUL 25,87	0.68	0.13	0.030	0.215	0.025	1.100	0.2138
AUG 3,87	AUG 2,87	0.50	0.18	0.025	0.040	<T	0.460	0.0724
AUG 5,87	AUG 4,87	0.18	0.18	0.025	0.040	<T	0.460	0.0724
AUG 8,87	AUG 7,87	0.04	0.07	0.005	<T	<T	0.085	0.0468
AUG 10,87	AUG 9,87	0.04	0.32	0.350	0.215	<T	1.300	0.0002
AUG 20,87	AUG 19,87	4.28	0.10	<T	0.015	<T	0.160	0.0316
AUG 22,87	AUG 21,87	<T	0.10	0.005	<T	<T	0.090	0.0091
AUG 29,87	AUG 28,87	<T	0.04	<T	0.010	<T	0.510	0.0912
SEP 1,87	AUG 31,87	0.18	0.27	<T	0.020	<T	0.005	0.1115
SEP 9,87	SEP 8,87	<T	0.03	<T	0.010	<T	0.055	0.0005
SEP 13,87	SEP 12,87	0.20	0.43	0.040	0.035	0.045	0.510	0.1738
SEP 14,87	SEP 13,87	0.72	0.48	0.115	0.115	0.055	1.400	0.2291
SEP 20,87	SEP 18,87	0.02	0.06	<T	0.015	<T	0.115	0.0195
SEP 28,87	SEP 27,87	0.62	0.35	0.130	0.205	<T	0.395	0.0117
SEP 30,87	SEP 29,87	0.34	0.19	0.070	0.025	0.060	0.625	0.0832
SEP 30,87	SEP 30,87	0.12	0.08	0.040	0.045	<T	0.235	0.0091
OCT 1,87	SEP 30,87	0.78	0.19	0.100	0.115	0.055	0.445	0.0309
OCT 7,87	OCT 2,87	0.22	0.17	0.015	0.065	<T	0.375	0.0791
OCT 9,87	OCT 7,87	<T	0.01	<T	0.020	<T	0.145	0.0339
OCT 9,87	OCT 6,87	IRE *****	IRE *****	IRE *****	IRE *****	IRE *****	IRE *****	IRE *****
OCT 18,87	OCT 17,87	0.60	0.34	0.055	0.100	0.065	0.950	0.1820
OCT 21,87	OCT 20,87	0.42	0.42	0.040	0.075	0.050	1.200	0.1820
OCT 25,87	OCT 22,87	0.44	0.19	0.045	0.040	0.035	0.560	0.0955
OCT 28,87	OCT 27,87	0.20	0.28	0.030	<T	0.025	0.275	0.0631
NOV 4,87	NOV 2,87	0.38	0.26	0.045	0.030	0.050	0.665	0.1000
NOV 5,87	NOV 4,87	0.18	0.02	0.015	<T	<T	0.410	0.0195
NOV 8,87	NOV 5,87	0.42	0.24	0.030	0.165	0.180	0.400	0.0324
NOV 16,87	NOV 17,87	0.12	0.34	0.030	<T	0.200	0.120	0.0257
NOV 19,87	NOV 18,87	1.46	0.33	0.185	0.080	0.065	1.100	0.0365
NOV 26,87	NOV 25,87	0.04	0.09	0.005	<T	0.035	0.180	0.0155
NOV 30,87	NOV 29,87	<T	0.02	0.005	<T	0.030	0.170	0.0174
DEC 10,87	DEC 9,87	0.10	0.20	<T	<T	0.075	0.160	0.0525
DEC 13,87	DEC 12,87	0.06	0.16	<T	<T	0.030	0.850	0.0617
DEC 16,87	DEC 15,87	0.12	0.07	0.010	<T	0.025	0.080	0.0316

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME 1 RAILTON/DAILY/AEROCHEM										#10	PAGE 1 7	
RENOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
DEC 25,67	DEC 24,67	800	800	****	2	5.0	2	91803	2	1	53	
				01-RAIN		01-STD.		02-APIOS	01-HOE			
				02-SNOW		02-RIPHER		03-SPECIAL	03-AES			
				03-COMP/04-OTHER								

ONTARIO MINISTRY OF THE ENVIRONMENT
 DAILY SAMPLING ANALYSIS RESULTS
 APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM				#10	PAGE : 8				
REMOVAL DATE	EXPOSURE DATE	VOLUME HL	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH6.5 MG/L	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 25,87	DEC 24,87	171.0	39.5	*****	4.18	*****	0.1040	2.65	1.13

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM		#10	PAGE : 9					
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 25,67	DEC 24,67	0.52	0.64	0.070	0.030	0.320	0.440	0.0661

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILNER/DAILY/AERONCH										#94	PAGE : 1	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE	
		HR.	HR.	01-RAIN 02-SNOW 03-COMP/04-OTHER		01-STD. 02-NIPHER		02-AOTOS 03-SPECIAL	01-MDE 03-AES			
JAN 3,87	JAN 2,87	830	830	1500 1700	7.2	2	60095	2	1	15	M	
JAN 7,87	JAN 6,87	830	900	0000 900	2.0	2	60096	2	1	98		
JAN 8,87	JAN 7,87	900	830	900 1130	0.4	2	60097	2	1	179	NH	
JAN 10,87	JAN 9,87	830	900	0000 900	4.2	2	60098	2	1	81		
JAN 10,87	JAN 10,87	900	900	900 1330	2.8	2	60099	2	1	54		
JAN 13,87	JAN 12,87	830	830	1300 1600	1.0	2	60101	2	1	45	N	
JAN 13,87	JAN 13,87	830	830	0000 730	3	2	60102	2	1	125	N	
JAN 15,87	JAN 14,87	830	730	0000 730	1.8	2	60103	2	1	125	NH	
JAN 16,87	JAN 15,87	730	830	0000 730	1.8	2	60105	2	1	125	N	
JAN 18,87	JAN 17,87	830	830	0000 730	3	2	60106	2	1	54		
JAN 19,87	JAN 18,87	830	830	730 1500	11.4	2	60107	2	1	63		
JAN 21,87	JAN 20,87	830	830	0000 730	1.6	2	60109	2	1	65		
JAN 23,87	JAN 22,87	830	830	1330 0000	9.4	2	60110	2	1	24		
JAN 24,87	JAN 23,87	830	830	0000 730	0.5	2	60111	2	1	68	NHCH	
JAN 25,87	JAN 24,87	830	830	0000 730	0.2	2	60112	2	1	68	N	
JAN 31,87	JAN 30,87	830	830	730 1200	11.4	2	60113	2	1	108		
FEB 1,87	JAN 31,87	830	830	830 930	0.2	2	60114	2	1	108		
FEB 3,87	FEB 2,87	830	830	0000 730	1.5	2	60117	2	1	78		
FEB 5,87	FEB 4,87	830	830	1430 1800	0.4	2	60118	2	1	58		
FEB 6,87	FEB 7,87	830	830	0000 1800	0.4	2	60120	2	1	44		
FEB 9,87	FEB 8,87	830	830	0000 1830	21.2	2	60121	2	1	179		
FEB 10,87	FEB 9,87	830	830	830 830	0.4	2	60123	2	1	124		
FEB 11,87	FEB 10,87	830	830	830 1200	1.0	2	60124	2	1	49		
FEB 13,87	FEB 12,87	830	830	2030 2300	15.6	2	60125	2	1	58		
MAR 1,87	FEB 28,87	830	830	1530 830	21.2	2	60127	2	1	49		
MAR 2,87	MAR 1,87	830	830	830 830	1.2	2	60129	2	1	80		
MAR 3,87	MAR 2,87	830	830	830 1200	0.2	9	60131	2	1	110		
MAR 4,87	MAR 3,87	830	830	1900 0000	7.4	1	80286	2	1	76		
MAR 26,87	MAR 25,87	830	830	1700 1630	27.6	1	80289	2	1	126		
MAR 31,87	MAR 30,87	830	830	900 830	10.0	1	80295	2	1	78		
APR 1,87	MAR 31,87	830	830	0000 700	0.8	1	80296	2	1	91		
APR 2,87	APR 1,87	830	700	0000 700	6.2	1	80299	2	1	106		
APR 3,87	APR 2,87	700	830	700 1400	0.4	1	80299	2	1	71	M	
APR 4,87	APR 3,87	830	830	0000 830	5.2	1	80302	2	1	120		
APR 5,87	APR 4,87	830	830	830 830	0.4	1	80303	2	1	288		
APR 6,87	APR 5,87	830	830	1800 1130	0.2	1	80304	2	1	108		
APR 7,87	APR 6,87	830	830	830 1230	0.2	1	80307	2	1	108		
APR 13,87	APR 12,87	830	830	0000 730	15.4	1	80308	2	1	109	BC	
APR 23,87	APR 22,87	830	800	400 800	3.6	1	80311	2	1	109		
APR 24,87	APR 23,87	830	830	0000 1100	3.6	1	80311	2	1	109		
APR 26,87	APR 25,87	830	830	0000 830		1						

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM										#9A	PAGE : 2	
REMOVAL DATE	EXPOSURE DATE	VOLUME	CONDUCT.	PH FIELD	PH LAB	TOTAL H+ TO PH8.3	TOTAL H+ GRAN	SULPHATE	NITRATE			
		HL	UMHO/CM			MG/L	MG/L	MG/L	AS N MG/L			
JAN 31-87	JAN 21-87	71.0	9.4	*****	4.79	*****	0.0348	0.65	0.24			
JAN 7-87	JAN 6-87	126.0	76.5	3.78	3.91	*****	0.1650	4.30	2.35			
JAN 8-87	JAN 7-87	46.0	37.6	*****	4.92	*****	0.0344	3.45	1.93			
JAN 10-87	JAN 9-87	220.0	26.0	*****	4.27	*****	0.0781	1.70	0.56			
JAN 11-87	JAN 10-87	97.0	50.7	*****	4.06	*****	0.1190	3.80	0.91			
JAN 13-87	JAN 12-87	29.0	22.0	*****	4.66	*****	0.0483	3.10	0.55			
JAN 15-87	JAN 14-87	*****	*****	*****	4.66	*****	*****	*****	*****			
JAN 16-87	JAN 15-87	145.0	100.0	*****	3.87	*****	0.1860	5.65	2.90			
JAN 18-87	JAN 17-87	*****	*****	*****	*****	*****	*****	*****	*****			
JAN 19-87	JAN 18-87	401.0	15.6	*****	4.79	*****	0.0358	0.85	0.50			
JAN 21-87	JAN 20-87	65.0	59.8	*****	3.94	*****	0.1340	2.50	1.60			
JAN 23-87	JAN 22-87	392.0	11.0	*****	4.83	*****	0.0349	LG	0.25			
JAN 24-87	JAN 23-87	8.0	5.4	*****	6.30	*****	0.0155	<1	0.28			
JAN 29-87	JAN 28-87	*****	*****	*****	*****	*****	*****	*****	*****			
JAN 31-87	JAN 30-87	499.0	45.6	4.06	4.06	*****	0.1170	2.90	1.00			
FEB 1-87	JAN 31-87	104.0	41.0	*****	4.23	*****	0.0908	2.50	1.45			
FEB 3-87	FEB 2-87	90.0	8.5	*****	4.99	*****	0.0285	0.70	0.17			
FEB 8-87	FEB 7-87	15.0	21.0	*****	4.75	*****	0.0641	2.00	0.72			
FEB 9-87	FEB 8-87	610.0	26.4	4.42	4.43	*****	0.0607	1.85	0.81			
FEB 10-87	FEB 9-87	23.0	13.0	*****	4.81	*****	0.0354	LG	0.68			
FEB 11-87	FEB 10-87	32.0	21.4	*****	4.44	*****	0.0592	LG	0.81			
FEB 13-87	FEB 12-87	32.0	19.0	*****	4.63	*****	0.0442	1.15	0.64			
MAR 1-87	FEB 28-87	583.0	11.8	4.46	4.73	*****	0.0376	0.80	0.23			
MAR 2-87	MAR 1-87	669.0	14.5	4.33	4.64	*****	0.0437	1.00	0.22			
MAR 3-87	MAR 2-87	82.0	11.3	*****	5.12	*****	0.0256	1.05	0.44			
MAR 4-87	MAR 3-87	*****	*****	*****	*****	*****	*****	*****	*****			
MAR 26-87	MAR 25-87	523.0	19.0	*****	4.50	*****	0.0680	2.10	0.74			
MAR 31-87	MAR 30-87	1354.0	22.0	*****	4.26	*****	0.0747	2.35	0.38			
APR 1-87	MAR 31-87	813.0	12.0	*****	4.49	*****	0.0472	1.25	0.12			
APR 2-87	APR 1-87	40.0	22.0	*****	4.28	*****	0.0701	1.70	0.59			
APR 3-87	APR 2-87	282.0	22.0	*****	4.28	*****	0.0698	2.00	0.57			
APR 4-87	APR 3-87	422.0	15.0	*****	4.46	*****	0.0527	1.25	0.28			
APR 5-87	APR 4-87	959.0	6.0	*****	5.00	*****	0.0257	0.40	0.10			
APR 6-87	APR 5-87	400.0	8.0	*****	4.83	*****	0.0324	0.80	0.16			
APR 7-87	APR 6-87	74.0	6.0	*****	5.42	*****	0.0210	0.65	0.14			
APR 13-87	APR 12-87	*****	*****	*****	*****	*****	*****	*****	*****			
APR 23-87	APR 22-87	*****	*****	*****	*****	*****	*****	*****	*****			
APR 24-87	APR 23-87	1074.0	43.0	*****	4.01	*****	0.1350	4.60	0.69			
APR 26-87	APR 25-87	255.0	50.0	*****	4.54	*****	0.0721	5.45	3.30			

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM										#9A	PAGE : 3		
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L					
JAN 3,87	JAN 2,87	0.12	0.06	0.030	<T	0.025	0.030	0.035	0.0162				
JAN 7,87	JAN 6,87	1.22	0.43	0.080		0.085	0.135	0.850	0.1230				
JAN 10,87	JAN 7,87	3.04	0.81	0.0085	UG	0.439	0.611	0.700	0.0120				
JAN 10,87	JAN 9,87	0.14	0.08	<T		0.030	<T	0.295	0.0537				
JAN 11,87	JAN 10,87	0.19	0.19	0.015	0.045	0.035	0.035	0.710	0.0871				
JAN 12,87	JAN 12,87	0.84	0.18	0.060	0.115	0.100	D	0.490	0.0219				
JAN 15,87	JAN 14,87	0.84	0.18	0.060	0.115	0.100	0.490	0.0219	0.0219				
JAN 16,87	JAN 15,87	1.84	0.71	0.060	0.275	0.310	2.200	0.1349	0.1349				
JAN 16,87	JAN 17,87	0.84	0.18	0.060	0.115	0.100	0.490	0.0219	0.0219				
JAN 19,87	JAN 18,87	0.46	0.20	0.045	0.030	0.035	0.140	0.0162	0.0162				
JAN 21,87	JAN 20,87	0.50	0.60	0.040	0.055	0.150	0.200	0.1148	0.1148				
JAN 23,87	JAN 22,87	0.20	0.12	<T	<T	0.010	0.060	0.005	0.0148				
JAN 24,87	JAN 23,87	0.32	0.07	<T	0.030	0.040	<T	0.010	0.0005				
JAN 29,87	JAN 28,87	0.84	0.18	0.060	0.115	0.100	0.490	0.0219	0.0219				
JAN 31,87	JAN 30,87	0.18	0.16	<T	0.020	0.035	0.410	0.0871	0.0871				
FEB 1,87	JAN 31,87	0.84	0.18	0.060	0.115	0.100	0.490	0.0219	0.0219				
FEB 3,87	FEB 2,87	0.36	0.25	D	0.055	0.075	0.980	0.0589	0.0589				
FEB 5,87	FEB 4,87	0.16	0.16	0.015	<T	0.020	0.060	0.102	0.0102				
FEB 8,87	FEB 7,87	0.84	0.49	0.070	0.095	0.250	0.360	0.0178	0.0178				
FEB 9,87	FEB 8,87	0.08	0.25	<T	0.015	<T	0.790	0.0372	0.0372				
FEB 10,87	FEB 9,87	0.58	0.20	0.040	0.070	0.120	0.005	0.0155	0.0155				
FEB 11,87	FEB 10,87	0.34	0.17	0.025	0.050	0.080	<T	0.0363	0.0363				
FEB 13,87	FEB 12,87	0.76	0.22	0.030	<T	0.025	<W	0.0234	0.0234				
MAR 1,87	FEB 28,87	0.10	<T	0.005	0.010	<T	0.090	0.0186	0.0186				
MAR 2,87	MAR 1,87	0.10	0.01	<W	0.015	0.010	0.005	0.0229	0.0229				
MAR 3,87	MAR 2,87	0.68	0.03	0.020	0.045	0.040	0.095	0.0076	0.0076				
MAR 4,87	MAR 3,87	0.84	0.18	0.060	0.115	0.100	0.490	0.0219	0.0219				
MAR 26,87	MAR 25,87	0.50	0.22	0.040	0.050	0.045	0.305	0.0316	0.0316				
MAR 31,87	MAR 30,87	<T	0.31	<T	0.020	0.130	0.235	0.0550	0.0550				
APR 1,87	MAR 31,87	0.02	<W	0.005	0.005	<T	0.025	0.0324	0.0324				
APR 2,87	APR 1,87	0.84	0.24	!IS	!IS	!IS	0.270	0.0525	0.0525				
APR 3,87	APR 2,87	0.12	0.22	0.015	0.025	0.020	0.360	0.0525	0.0525				
APR 4,87	APR 3,87	0.14	0.29	<T	0.020	0.115	0.035	0.0347	0.0347				
APR 5,87	APR 4,87	0.02	0.24	<T	0.010	0.090	0.020	0.0100	0.0100				
APR 6,87	APR 5,87	0.12	0.16	<T	0.020	0.050	0.080	0.0048	0.0048				
APR 7,87	APR 6,87	0.12	0.18	<T	0.020	0.065	0.200	0.0038	0.0038				
APR 13,87	APR 12,87	0.84	0.18	0.060	0.115	0.100	0.490	0.0219	0.0219				
APR 23,87	APR 22,87	0.84	0.18	0.060	0.115	0.100	0.490	0.0219	0.0219				
APR 24,87	APR 23,87	0.30	0.23	0.040	0.045	0.045	0.095	0.0076	0.0076				
APR 26,87	APR 25,87	0.84	0.18	0.060	0.115	0.100	0.490	0.0219	0.0219				
APR 28,87	APR 27,87	0.36	0.58	UG	0.750	0.360	1.900	0.0289	0.0289				

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM										89A	PAGE : 4	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH (MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS	
				01-RAIN 02-SNOW 03-COMP/04-OTHER		01-STD. 02-NIPHER		02-APIOS 03-SPECIAL	01-HOE 03-AES		FIELD OFFICE	
APR 29-87	APR 28-87	830 800	830 1230	1	1.2	1	80312	2	1	179	N	
APR 30-87	APR 29-87	800 800	1100 1400	1	4.6	2	60132	2	1	122	N	
MAY 10-87	MAY 9-87	800 800	8000 8000	1	0.4	1	60133	2	1	142	EN	
MAY 11-87	MAY 10-87	800 830	630 800	1	1.4	1	60134	2	1	96	N	
MAY 12-87	MAY 11-87	830 830	8000 8000	1	3.2	1	60135	2	1	103	H	
MAY 15-87	MAY 14-87	830 830	830 2400 500	1	12.0	1	60136	2	1	93		
MAY 17-87	MAY 16-87	830 830	8000 8000	1	3.4	1	60137	2	1	99		
MAY 22-87	MAY 21-87	830 800	200 800	1	4.6	1	60138	2	1	102		
MAY 23-87	MAY 22-87	800 830	800 1000	1	7.6	1	60139	2	1	66	Q	
MAY 25-87	MAY 24-87	830 830	8000 8000	1	0.8	1	60140	2	1	99	A	
MAY 27-87	MAY 26-87	830 900	1630 2100	1	4.8	1	60141	2	1	101	A	
MAY 28-87	MAY 27-87	900 830	200 630	1	6.8	1	60142	2	1	101	EFI	
MAY 29-87	MAY 28-87	830 900	1600 1800	1	21.6	1	60143	2	1	101	EN	
MAY 31-87	MAY 30-87	830 830	1400 1500	1	0.4	1	60144	2	1	117	C	
JUN 1-87	MAY 31-87	830 830	1500 1530	1	12.6	1	60145	2	1	100		
JUN 2-87	JUN 1-87	830 830	8000 8000	1	4.6	1	60146	2	1	100	EN	
JUN 3-87	JUN 2-87	830 830	8000 8000	4	15.4	1	60147	2	1	64		
JUN 4-87	JUN 3-87	830 830	945 1200	1	18.0	1	60148	2	1	91	T	
JUN 6-87	JUN 5-87	830 830	1800 1915	1	2.8	1	60150	2	1	80	HM	
JUN 7-87	JUN 6-87	830 830	400 730	1	1.2	1	60151	2	1	108	H	
JUN 8-87	JUN 7-87	830 830	900 945	1	16.4	1	60152	2	1	98	H	
JUN 9-87	JUN 8-87	830 800	815 930	1	9.6	1	60153	2	1	91		
JUN 10-87	JUN 9-87	800 800	1045 1400	1	11.2	1	60154	2	1	98	C	
JUN 12-87	JUN 11-87	800 800	1900 2200	1	6.2	1	60155	2	1	101		
JUN 13-87	JUN 12-87	800 800	8000 8000	1	5.6	1	60156	2	1	98		
JUN 20-87	JUN 19-87	800 800	1630 1800	1	13.2	1	60157	2	1	98		
JUN 22-87	JUN 21-87	800 800	630 730	1	0.2	1	60158	2	1	23	EN	
JUN 23-87	JUN 22-87	800 800	1500 1715	1	0.6	1	60159	2	1	97	E	
JUN 27-87	JUN 26-87	800 800	800 1500	1	10.4	1	60160	2	1	84	JH	
JUN 29-87	JUN 28-87	800 830	800 830	1	1.0	1	60161	2	1	95	A	
JUN 30-87	JUN 29-87	830 830	2000 2030	1	2.0	1	60162	2	1	99		
JUL 3-87	JUL 2-87	830 830	8000 8000	1	10.6	1	60163	2	1	104		
JUL 4-87	JUL 3-87	830 830	8000 8000	1	5.8	1	60164	2	1	100	A	
JUL 15-87	JUL 14-87	830 830	1130 1600	1	14.6	1	60166	2	1	99		
JUL 19-87	JUL 18-87	830 830	2000 2130	1	6.4	1	60167	2	1	92	A	
JUL 20-87	JUL 19-87	830 830	245 315	1	2.0	1	60168	2	1	97		
JUL 25-87	JUL 24-87	830 830	1730 1900	1	3.4	1	60169	2	1	100	EN	
JUL 26-87	JUL 25-87	830 830	8000 8000	1	0.4	1	60170	2	1	105	EN	
JUL 28-87	JUL 27-87	830 830	1630 1645	1	0.4	1	60171	2	1			
AUG 3-87	AUG 2-87	830 830	1400 1800	1	11.6	1	60172	2	1			

STATION NAME : WILMER/DAILY/AEROCHEM						#9A	PAGE : 5			
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PUG.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L	
APR 29,87	APR 26,87	138.0	20.0	UG	UG	*****	LQ	0.0607	0.75	
APR 30,87	APR 29,87	322.0	19.8	*****	6.42	*****	*****	3.30	0.57	
MAY 10,87	MAY 9,87	*****	*****	*****	*****	*****	*****	3.10	*****	
MAY 11,87	MAY 10,87	128.0	36.9	UG	7.08	*****	0.0214	5.85	1.26	
MAY 12,87	MAY 11,87	198.0	29.9	*****	6.76	*****	0.0416	6.00	0.86	
MAY 15,87	MAY 14,87	793.0	50.2	3.93	4.01	*****	0.1350	5.70	0.66	
MAY 17,87	MAY 16,87	204.0	33.5	4.39	4.55	*****	0.0590	5.15	0.86	
MAY 18,87	MAY 17,87	294.0	> 100.0	3.67	3.67	*****	0.2670	10.15	1.39	
MAY 22,87	MAY 21,87	497.0	99.9	3.63	3.63	*****	0.2630	9.95	1.13	
MAY 23,87	MAY 22,87	D	D	D	B	*****	D	D	0.65	
MAY 25,87	MAY 24,87	34.0	23.8	*****	6.29	*****	0.0217	4.95	0.65	
MAY 27,87	MAY 26,87	306.0	95.6	3.65	3.71	*****	0.2490	10.00	1.03	
MAY 28,87	MAY 27,87	443.0	47.0	3.84	3.95	*****	0.1150	4.45	0.70	
MAY 29,87	MAY 28,87	*****	*****	*****	*****	*****	*****	*****	*****	
MAY 31,87	MAY 30,87	*****	*****	*****	*****	*****	*****	*****	*****	
JUN 1,87	MAY 31,87	952.0	21.4	4.28	4.33	*****	0.0543	2.55	0.35	
JUN 2,87	JUN 1,87	295.0	60.8	3.74	3.79	*****	0.1550	5.40	0.90	
JUN 3,87	JUN 2,87	*****	*****	*****	*****	*****	*****	*****	*****	
JUN 4,87	JUN 3,87	741.0	95.0	3.55	3.59	*****	0.2460	9.20	1.20	
JUN 6,87	JUN 5,87	165.0	97.1	5.19	5.52	*****	0.0213	1.15	0.25	
JUN 7,87	JUN 6,87	62.0	12.8	4.81	4.71	*****	0.0348	1.55	0.20	
JUN 8,87	JUN 7,87	1138.0	26.6	4.50	4.71	*****	0.0643	4.05	0.70	
JUN 9,87	JUN 8,87	607.0	14.3	4.80	5.08	*****	0.0306	1.85	0.40	
JUN 10,87	JUN 9,87	660.0	10.7	4.54	4.61	*****	0.0398	1.10	0.05	
JUN 12,87	JUN 11,87	390.0	60.8	3.76	3.81	*****	0.1670	6.10	0.65	
JUN 13,87	JUN 12,87	365.0	14.8	4.61	4.79	*****	0.0351	1.65	0.30	
JUN 15,87	JUN 14,87	831.0	54.6	3.68	4.01	*****	0.1260	6.55	1.05	
JUN 20,87	JUN 19,87	*****	*****	*****	*****	*****	*****	*****	*****	
JUN 22,87	JUN 21,87	*****	*****	*****	*****	*****	*****	*****	*****	
JUN 23,87	JUN 22,87	9.0	*****	*****	*****	*****	*****	*****	*****	
JUN 25,87	JUN 24,87	650.0	78.6	3.63	3.73	*****	0.2070	7.65	0.85	
JUN 27,87	JUN 26,87	54.0	26.1	4.48	4.78	*****	0.0313	4.30	0.90	
JUN 28,87	JUN 27,87	123.0	80.2	3.71	3.82	*****	0.1020	10.20	1.35	
JUN 30,87	JUN 29,87	674.0	43.9	3.82	3.96	*****	0.1260	3.55	0.70	
JUL 3,87	JUL 2,87	387.0	3.74	3.65	3.85	*****	0.1800	8.50	0.70	
JUL 4,87	JUL 3,87	382.0	67.0	4.15	4.30	*****	0.0633	2.15	0.29	
JUL 15,87	JUL 14,87	942.0	19.0	4.25	4.25	*****	0.0892	8.05	0.77	
JUL 19,87	JUL 18,87	408.0	47.0	4.05	4.25	*****	0.2820	11.10	1.16	
JUL 20,87	JUL 19,87	119.0	>	3.53	3.66	*****	0.0914	8.40	0.78	
JUL 25,87	JUL 24,87	212.0	119.0	4.08	4.25	*****	*****	*****	*****	
JUL 26,87	JUL 25,87	*****	*****	*****	*****	*****	*****	*****	*****	
JUL 28,87	JUL 27,87	*****	*****	*****	*****	*****	*****	*****	*****	
AUG 3,87	AUG 2,87	785.0	78.0	3.65	3.76	*****	0.2120	9.30	0.80	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

PAGE : 6

STATION NAME : WILHER/DAILY/AEROCHEM

#9A

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 29.87	APR 28.87	1.30	0.33	0.090	0.120	0.190	0.500	0.0151
APR 30.87	APR 29.87	0.74	0.11	0.115	0.065	0.045	1.350	0.0001
MAY 10.87	MAY 9.87	*****	*****	*****	*****	*****	*****	*****
MAY 11.87	MAY 10.87	2.06	0.57	0.365	0.380	0.335	1.950	0.0001
MAY 12.87	MAY 11.87	1.38	0.19	0.215	0.160	0.185	1.500	0.0107
MAY 15.87	MAY 14.87	0.30	0.030	0.045	0.035	0.020	0.560	0.0977
MAY 17.87	MAY 16.87	0.92	0.13	0.145	0.060	0.035	1.150	0.0282
MAY 22.87	MAY 21.87	0.26	0.29	0.035	0.045	0.070	0.710	0.2138
MAY 23.87	MAY 22.87	0.14	0.57	<T	0.055	0.060	0.725	0.2089
MAY 25.87	MAY 24.87	*****	0.25	0.020	0.055	0.060	1.650	0.0005
MAY 27.87	MAY 26.87	0.34	0.32	0.035	0.085	0.130	0.695	0.1950
MAY 28.87	MAY 27.87	0.24	0.15	0.035	0.010	0.040	0.545	0.1122
MAY 29.87	MAY 28.87	*****	*****	*****	*****	*****	*****	*****
MAY 31.87	MAY 30.87	*****	*****	*****	*****	*****	*****	*****
JUN 1.87	MAY 31.87	0.16	0.05	0.020	0.035	0.025	0.530	0.0372
JUN 2.87	JUN 1.87	0.20	0.20	<T	0.015	0.025	0.555	0.1622
JUN 3.87	JUN 2.87	*****	*****	*****	*****	*****	*****	*****
JUN 4.87	JUN 3.87	0.14	0.30	<T	0.015	0.040	0.900	0.2570
JUN 6.87	JUN 5.87	0.20	0.05	<T	0.075	0.025	0.360	0.0030
JUN 7.87	JUN 6.87	0.93	<T	0.030	0.035	0.025	0.330	0.0141
JUN 8.87	JUN 7.87	0.70	0.20	0.100	0.105	0.090	1.150	0.0195
JUN 9.87	JUN 8.87	0.24	0.05	0.040	0.035	0.025	0.660	0.0083
JUN 10.87	JUN 9.87	0.04	<T	0.005	0.005	0.015	0.050	0.0219
JUN 12.87	JUN 11.87	0.26	0.15	0.040	0.075	0.035	0.425	0.1549
JUN 13.87	JUN 12.87	0.12	0.05	<T	0.020	0.040	0.460	0.0162
JUN 20.87	JUN 19.87	1.14	0.15	0.105	<T	0.035	0.900	0.0977
JUN 22.87	JUN 21.87	*****	*****	*****	*****	*****	*****	*****
JUN 23.87	JUN 22.87	*****	*****	*****	*****	*****	*****	*****
JUN 27.87	JUN 26.87	0.32	0.20	0.030	0.015	0.030	0.410	0.1862
JUN 29.87	JUN 28.87	0.84	0.45	0.170	0.380	0.205	1.250	0.0066
JUN 30.87	JUN 29.87	1.38	0.45	0.260	0.150	0.160	1.250	0.1514
JUL 3.87	JUL 2.87	0.14	0.10	<T	0.010	0.020	0.225	0.1096
JUL 4.87	JUL 3.87	0.26	0.18	0.035	0.030	0.005	0.695	0.1413
JUL 15.87	JUL 14.87	0.10	0.14	<T	0.015	0.015	0.080	0.0417
JUL 19.87	JUL 18.87	0.74	0.74	0.095	0.035	0.030	0.950	0.0562
JUL 20.87	JUL 19.87	0.68	0.42	0.085	0.080	0.125	0.615	0.2188
JUL 25.87	JUL 24.87	1.48	0.23	0.160	0.080	0.035	0.695	0.0562
JUL 26.87	JUL 25.87	*****	*****	*****	*****	*****	*****	*****
JUL 28.87	JUL 27.87	*****	*****	*****	*****	*****	*****	*****
AUG 3.87	AUG 2.87	0.14	0.28	<T	0.095	0.040	0.830	0.1738

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM										#9A	PAGE : 7	
REMOVAL DATE	EXPOSURE DATE	SAMPLING HR.	START/END HR.	PRECIP HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT 01-ROE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
					01-RAIN 02-SNOW 03-COMP/04-OTHER		01-STD. 02-NIPHER		02-APIOS 03-SPECIAL			
AUG 5-87	AUG 4-87	830	830	1430	1515	1	1	60173	2	1	99	
AUG 8-87	AUG 7-87	830	830	1630	1900	1	1	60174	2	1	***	EK
AUG 10-87	AUG 9-87	830	830	1030	1600	1	1	60175	2	1	102	
AUG 13-87	AUG 12-87	830	830	830	***	1	1	60176	2	1	***	EK
AUG 15-87	AUG 14-87	830	830	1545	1615	1	1	60177	2	1	79	H
AUG 22-87	AUG 21-87	830	830	400	745	1	1	60178	2	1	103	
AUG 26-87	AUG 25-87	830	830	1340	1415	1	1	60179	2	1	20	G
AUG 29-87	AUG 28-87	830	830	2100	800	1	1	60180	2	1	72	
SEP 1-87	AUG 31-87	830	830	***	***	1	1	60182	2	1	***	
SEP 2-87	SEP 1-87	830	830	***	***	4	1	60183	2	1	***	E
SEP 9-87	SEP 8-87	730	700	815	1600	1	1	60184	2	1	91	N
SEP 10-87	SEP 9-87	700	700	800	900	1	1	60186	2	1	***	
SEP 12-87	SEP 11-87	730	730	***	***	1	1	60187	2	1	95	N
SEP 13-87	SEP 12-87	730	830	1400	1500	1	1	60188	2	1	101	A
SEP 14-87	SEP 13-87	830	700	***	***	1	1	60189	2	1	86	
SEP 18-87	SEP 17-87	700	700	***	***	1	1	60190	2	1	60	
SEP 19-87	SEP 18-87	700	700	800	1300	1	1	60191	2	1	86	
SEP 20-87	SEP 19-87	700	830	700	1830	1	1	60192	2	1	49	NH
SEP 21-87	SEP 20-87	830	700	1900	2130	1	1	60194	2	1	96	
SEP 24-87	SEP 23-87	700	700	***	***	1	1	60195	2	1	95	H
SEP 27-87	SEP 26-87	700	700	***	***	4	1	60196	2	1	***	
SEP 28-87	SEP 27-87	700	700	***	***	1	1	60197	2	1	89	N
SEP 30-87	SEP 29-87	700	700	1845	2130	1	1	60198	2	1	103	
OCT 1-87	SEP 30-87	700	700	***	***	1	1	60199	2	1	95	
OCT 2-87	OCT 1-87	700	700	1300	1530	1	1	60200	2	1	***	
OCT 3-87	OCT 2-87	700	700	1000	1700	1	1	60201	2	1	97	EK
OCT 5-87	OCT 4-87	700	700	***	***	4	1	60202	2	1	103	
OCT 7-87	OCT 6-87	700	700	530	700	1	1	60203	2	1	58	
OCT 9-87	OCT 8-87	700	700	700	930	1	1	60204	2	1	71	
OCT 9-87	OCT 8-87	700	700	700	830	1	1	60206	2	1	***	
OCT 10-87	OCT 9-87	700	700	***	***	1	1	60207	2	1	87	EK
OCT 16-87	OCT 15-87	700	700	1630	2100	1	1	60208	2	1	94	
OCT 21-87	OCT 20-87	700	700	1630	2200	1	1	60209	2	1	100	
OCT 23-87	OCT 22-87	700	700	2300	700	1	1	60210	2	1	72	
OCT 24-87	OCT 23-87	700	700	700	930	1	1	60211	2	1	91	
OCT 25-87	OCT 24-87	700	700	1500	2000	1	1	60212	2	1	95	
OCT 28-87	OCT 27-87	700	700	1300	2100	1	1	60213	2	1	***	
OCT 30-87	OCT 29-87	700	700	***	***	1	1	60214	2	1	61	EK
OCT 31-87	OCT 30-87	700	700	800	1030	1	1	60215	2	1	60	
NOV 3-87	NOV 2-87	700	700	***	***	1	1	60216	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM				89A	PAGE : 8				
REMOVAL DATE	EXPOSURE DATE	VOLUME	CONDUCT.	PH FIELD	PH LAB	TOTAL H+ TO PHIB.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 5-87	AUG 4-87	280.0	58.0	3.81	3.93	*****	D 0.1490	6.10	1.20
AUG 6-87	AUG 7-87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 10-87	AUG 9-87	339.0	D 22.0	4.13	4.32	*****	D 0.0760	2.90	0.22
AUG 18-87	AUG 17-87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 19-87	AUG 18-87	51.0	22.0	*****	UG 6.87	*****	0.0174	4.30	1.09
AUG 22-87	AUG 21-87	503.0	13.0	4.31	*****	*****	0.0539	1.80	0.24
AUG 26-87	AUG 25-87	93.0	6.0	*****	UG 6.12	*****	0.0200	*****	*****
AUG 29-87	AUG 28-87	997.0	7.0	4.58	*****	*****	0.0345	0.75	0.18
SEP 1-87	AUG 31-87	410.0	46.0	*****	4.02	*****	0.1320	5.20	0.53
SEP 2-87	SEP 1-87	*****	*****	*****	*****	*****	*****	*****	*****
SEP 9-87	SEP 8-87	3483.0	5.5	4.64	4.87	*****	0.0316	*****	*****
SEP 10-87	SEP 9-87	*****	*****	*****	*****	*****	*****	*****	*****
SEP 12-87	SEP 11-87	> 100.0	*****	*****	3.64	*****	0.3080	13.40	2.05
SEP 13-87	SEP 12-87	86.0	79.0	3.67	3.81	*****	0.2090	7.80	0.84
SEP 14-87	SEP 13-87	961.0	> 100.0	*****	3.75	*****	0.2420	10.20	1.80
SEP 18-87	SEP 17-87	31.0	> 100.0	*****	3.65	*****	0.3010	9.55	1.22
SEP 19-87	SEP 18-87	457.0	15.0	4.40	4.57	*****	0.0691	1.45	0.21
SEP 20-87	SEP 19-87	468.0	9.0	4.62	4.75	*****	0.0377	1.00	0.16
SEP 21-87	SEP 20-87	272.0	14.0	4.42	4.60	*****	0.0668	1.55	0.14
SEP 24-87	SEP 23-87	319.0	9.0	4.94	5.14	*****	0.0275	1.55	0.15
SEP 27-87	SEP 26-87	*****	*****	*****	IRE	*****	IRE	*****	*****
SEP 28-87	SEP 27-87	92.0	40.0	*****	4.24	*****	0.0905	3.65	1.03
SEP 30-87	SEP 29-87	785.0	58.0	3.95	4.03	*****	0.1340	6.65	0.73
OCT 1-87	SEP 30-87	195.0	6.0	4.80	5.03	*****	0.0291	0.90	0.19
OCT 2-87	OCT 1-87	*****	*****	*****	*****	*****	0.0516	3.60	0.48
OCT 3-87	OCT 2-87	801.0	20.0	4.29	4.58	*****	0.0994	2.75	0.81
OCT 5-87	OCT 4-87	610.0	33.0	3.97	4.13	*****	0.0530	1.65	0.23
OCT 6-87	OCT 5-87	685.0	14.0	4.25	4.48	*****	0.0263	0.80	0.15
OCT 9-87	OCT 8-87	82.0	5.0	*****	5.08	*****	*****	*****	*****
OCT 10-87	OCT 9-87	*****	*****	*****	*****	*****	0.2290	6.70	2.06
OCT 18-87	OCT 17-87	202.0	89.0	3.62	3.73	*****	0.1990	5.80	1.78
OCT 21-87	OCT 20-87	375.0	73.0	3.66	3.79	*****	0.0989	2.15	0.87
OCT 23-87	OCT 22-87	723.0	34.0	3.93	4.12	*****	0.0766	3.45	1.53
OCT 24-87	OCT 23-87	84.0	36.0	*****	4.29	*****	0.2100	6.65	1.81
OCT 25-87	OCT 24-87	411.0	78.0	3.64	3.75	*****	0.0757	1.90	0.60
OCT 28-87	OCT 27-87	943.0	26.0	4.08	4.27	*****	0.0757	*****	*****
OCT 30-87	OCT 29-87	*****	*****	*****	*****	*****	0.1440	4.05	2.80
OCT 31-87	OCT 30-87	126.0	64.0	3.82	3.96	*****	*****	9.90	2.00
NOV 3-87	NOV 2-87	31.0	> 100.0	*****	LG 3.57	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM										#9A	PAGE 1 9		
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L					
AUG 5,87	AUG 4,87	D	0.60	D	0.065	D	0.030	0.040	0.1175				
AUG 8,87	AUG 7,87	*****	*****	*****	*****	*****	*****	*****	*****				
AUG 10,87	AUG 9,87	0.12	0.11	<T	0.015	<T	0.020	0.100	0.0479				
AUG 16,87	AUG 17,87	*****	*****	*****	*****	*****	*****	*****	*****				
AUG 19,87	AUG 18,87	2.22	0.30	0.135	0.095	0.085	0.775	0.0302	UG				
AUG 22,87	AUG 21,87	D	0.09	<T	0.015	D	0.045	0.105	0.0008				
AUG 26,87	AUG 25,87	0.22	!IR	0.035	<T	<T	0.015	0.310	0.0008				
AUG 29,87	AUG 28,87	0.08	<T	0.010	<T	<T	0.010	0.120	0.0135				
SEP 1,87	AUG 31,87	0.20	0.19	<T	0.020	<M	0.005	0.510	0.0955				
SEP 2,87	SEP 1,87	*****	*****	*****	*****	*****	*****	*****	*****				
SEP 9,87	SEP 8,87	<M	!CR	<M	0.005	<T	0.005	0.040	0.0135				
SEP 10,87	SEP 9,87	*****	*****	*****	*****	*****	*****	*****	*****				
SEP 12,87	SEP 11,87	0.30	0.42	0.085	0.120	0.070	2.100	0.2291	*****				
SEP 13,87	SEP 12,87	0.08	0.49	0.040	0.030	0.025	0.430	0.1549	*****				
SEP 14,87	SEP 13,87	0.48	0.35	0.095	0.070	0.100	1.050	0.1778	*****				
SEP 16,87	SEP 17,87	0.56	0.32	0.125	0.055	0.100	0.695	0.2239	*****				
SEP 19,87	SEP 18,87	0.04	<T	0.035	<T	<M	0.005	0.070	0.0269				
SEP 20,87	SEP 19,87	0.02	0.09	0.030	0.015	<T	0.010	0.055	0.0178				
SEP 21,87	SEP 20,87	0.02	<T	0.010	<T	<T	0.010	0.065	0.0251				
SEP 24,87	SEP 23,87	0.18	<T	0.01	0.030	<T	0.225	0.0072	*****				
SEP 27,87	SEP 26,87	IRE	IRE	IRE	IRE	IRE	IRE	IRE	IRE				
SEP 28,87	SEP 27,87	0.88	0.26	0.170	0.060	D	0.095	0.365	0.0575				
SEP 30,87	SEP 29,87	0.36	0.24	0.080	0.040	0.075	0.745	0.0933	*****				
OCT 1,87	SEP 30,87	<T	0.01	0.040	0.030	<T	0.140	0.0091	*****				
OCT 2,87	OCT 1,87	*****	*****	*****	*****	*****	*****	*****	*****				
OCT 3,87	OCT 2,87	0.68	0.12	0.065	0.080	0.055	0.470	0.0263	*****				
OCT 5,87	OCT 4,87	*****	*****	*****	*****	*****	*****	*****	*****				
OCT 7,87	OCT 6,87	0.20	0.46	<T	0.015	<T	0.260	0.0741	*****				
OCT 8,87	OCT 7,87	<T	<T	<M	0.005	<M	0.005	0.0331	*****				
OCT 9,87	OCT 8,87	0.14	0.11	<T	0.015	0.055	0.125	0.0083	*****				
OCT 10,87	OCT 9,87	*****	*****	*****	*****	*****	*****	*****	*****				
OCT 18,87	OCT 17,87	0.58	0.33	0.060	0.090	0.055	0.790	0.1862	*****				
OCT 21,87	OCT 20,87	0.24	0.29	0.035	0.050	0.030	0.950	0.1622	*****				
OCT 23,87	OCT 22,87	0.08	0.11	<T	<T	<T	0.275	0.0759	*****				
OCT 24,87	OCT 23,87	1.42	0.31	0.195	0.090	0.080	0.535	0.0513	*****				
OCT 25,87	OCT 24,87	0.54	0.37	0.060	0.095	0.065	0.755	0.1778	*****				
OCT 28,87	OCT 27,87	0.18	0.12	<T	0.020	<T	0.200	0.0537	*****				
OCT 30,87	OCT 29,87	*****	*****	*****	*****	*****	*****	*****	*****				
OCT 31,87	OCT 30,87	1.58	0.61	0.245	0.110	0.045	1.100	0.1096	*****				
NOV 3,87	NOV 2,87	0.64	0.47	0.080	0.070	0.150	0.400	0.2692	LG				

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM										#9A	PAGE : 10		
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS		
				01-RAIN 02-SHOW 03-COMP/04-OTHER		01-STD. 02-NIPHER		02-APIOS 03-SPECIAL	01-HOE 03-AES		FIELD	OFFICE	
NOV 4.67	NOV 3.67	700 700	700 1500	1	9.6	1	60218	2	1	99			
NOV 5.67	NOV 4.67	700 700	2000 2200	1	2.6	1	60219	2	1	94			
NOV 6.67	NOV 5.67	700 700	1500 1900	3	3.2	1	60220	2	1	65			
NOV 7.67	NOV 6.67	700 700	*****	2	2.6	2	60221	2	1	81			HM
NOV 8.67	NOV 7.67	700 800	*****	1	2.2	2	60222	2	1	121			N
NOV 9.67	NOV 8.67	800 700	800 1600	1	14.8	2	60223	2	1	51			
NOV 18.67	NOV 17.67	700 700	700 1600	1	32.4	2	60226	2	1	99			
NOV 21.67	NOV 20.67	700 800	*****	2	0.2	2	60229	2	1	****			EK
NOV 23.67	NOV 22.67	700 700	*****	1	0.2	2	60230	2	1	****			EK
NOV 24.67	NOV 23.67	700 700	2200 2220	1	0.2	2	60231	2	1	****			EK
NOV 26.67	NOV 25.67	700 700	900 1630	4	30.2	2	60232	2	1	U 44			J
NOV 28.67	NOV 27.67	700 800	*****	1	0.2	2	60234	2	1	****			EK
NOV 29.67	NOV 28.67	800 900	1700 900	1	12.2	2	60235	2	1	100			
NOV 30.67	NOV 29.67	900 700	900 2000	1	48.6	2	60236	2	1	72			H
DEC 1.67	NOV 30.67	700 700	*****	1	0.2	2	60237	2	1	U 522			EK
DEC 2.67	DEC 1.67	700 700	1500 2200	2	1.4	2	60238	2	1	****			EIK
DEC 4.67	DEC 3.67	700 700	*****	1	0.4	2	60239	2	1	****			EK
DEC 5.67	DEC 4.67	700 800	*****	1	0.2	2	60240	2	1	****			EK
DEC 9.67	DEC 8.67	700 700	845 1000	1	0.6	2	60241	2	1	54			
DEC 10.67	DEC 9.67	700 700	*****	1	7.0	2	60242	2	1	114			N
DEC 12.67	DEC 11.67	700 800	*****	3	0.6	2	60243	2	1	31			N
DEC 13.67	DEC 12.67	800 800	930 1200	3	2.6	2	60244	2	1	186			EK
DEC 14.67	DEC 13.67	800 700	*****	2	0.2	2	60245	2	1	****			
DEC 16.67	DEC 15.67	700 700	1045 1600	3	29.6	2	60246	2	1	59			
DEC 17.67	DEC 16.67	700 700	700 900	2	1.0	2	60247	2	1	35			N
DEC 18.67	DEC 17.67	700 700	*****	2	0.2	2	60248	2	1	****			EK
DEC 19.67	DEC 18.67	700 700	*****	2	0.4	2	60249	2	1	****			EK
DEC 20.67	DEC 19.67	700 800	*****	3	9.6	2	60250	2	1	80			
DEC 21.67	DEC 20.67	800 700	700 1500	2	7.8	2	60251	2	1	92			
DEC 28.67	DEC 27.67	700 700	*****	2	0.2	2	60252	2	1	****			EK

STATION NAME : WILMER/DAILY/AEROCHEM				#9A	PAGE : 11				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH0.3 MG/L	TOTAL H+ GRAM MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 4,87	NOV 3,87	615.0	43.0	3.91	4.02	*****	0.1210	4.00	0.83
NOV 5,87	NOV 4,87	170.0	16.0	4.36	4.58	*****	0.0670	1.40	0.43
NOV 6,87	NOV 5,87	134.0	7.0	4.71	5.05	*****	0.0261	0.95	0.16
NOV 7,87	NOV 6,87	135.0	3.0	5.09	UG	*****	0.0190	0.35	0.07
NOV 8,87	NOV 7,87	172.0	20.0	4.22	4.36	*****	0.0632	1.50	0.44
NOV 9,87	NOV 8,87	486.0	26.0	4.10	4.25	*****	0.0774	1.65	0.62
NOV 10,87	NOV 9,87	2074.0	13.0	*****	4.64	*****	0.0437	1.20	0.27
NOV 11,87	NOV 10,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 12,87	NOV 11,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 13,87	NOV 12,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 14,87	NOV 13,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 15,87	NOV 14,87	870.0	22.0	*****	4.36	*****	0.0730	1.55	0.54
NOV 16,87	NOV 15,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 17,87	NOV 16,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 18,87	NOV 17,87	788.0	7.0	*****	4.78	*****	0.0357	0.85	0.08
NOV 19,87	NOV 18,87	2257.0	3.0	*****	5.09	*****	0.0247	0.40	0.07
NOV 20,87	NOV 19,87	*****	*****	*****	*****	*****	0.1320	4.70	1.62
NOV 21,87	NOV 20,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 22,87	NOV 21,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 23,87	NOV 22,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 24,87	NOV 23,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 25,87	NOV 24,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 26,87	NOV 25,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 27,87	NOV 26,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 28,87	NOV 27,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 29,87	NOV 28,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 30,87	NOV 29,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 1,87	NOV 30,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 2,87	DEC 1,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 3,87	DEC 2,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 4,87	DEC 3,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 5,87	DEC 4,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 6,87	DEC 5,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 7,87	DEC 6,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 8,87	DEC 7,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 9,87	DEC 8,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 10,87	DEC 9,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 11,87	DEC 10,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 12,87	DEC 11,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 13,87	DEC 12,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 14,87	DEC 13,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 15,87	DEC 14,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 16,87	DEC 15,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 17,87	DEC 16,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 18,87	DEC 17,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 19,87	DEC 18,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 20,87	DEC 19,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 21,87	DEC 20,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 22,87	DEC 21,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 23,87	DEC 22,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 24,87	DEC 23,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 25,87	DEC 24,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 26,87	DEC 25,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 27,87	DEC 26,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 28,87	DEC 27,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 29,87	DEC 28,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 30,87	DEC 29,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 31,87	DEC 30,87	*****	*****	*****	*****	*****	*****	*****	*****

PART VI
SOUTHWESTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEN #02										PAGE : 1	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
03-COMP/04-OTHER											
JAN 2-87	JAN 1-87	800	800	200	800	2	64636	2	1	71	
JAN 3-87	JAN 2-87	800	800	800	1300	2	64637	2	1	64	
JAN 8-87	JAN 7-87	800	800	800	1500	3	64638	2	1	94	T
JAN 10-87	JAN 9-87	800	900	2300	900	2	64639	2	1	47	N
JAN 11-87	JAN 10-87	900	800	800	1600	3	64640	2	2	107	
JAN 13-87	JAN 12-87	800	800	1600	1500	2	64641	2	1	81	H
JAN 15-87	JAN 14-87	800	800	2000	2400	1	64642	2	1	101	
JAN 17-87	JAN 16-87	800	800	1700	800	2	64643	2	1	***	FIE
JAN 19-87	JAN 18-87	800	800	900	1100	2	64644	2	1	46	N
JAN 23-87	JAN 22-87	800	800	2200	100	2	64645	2	1	36	N
JAN 30-87	JAN 29-87	800	800	2400	800	3	64647	2	1	64	
JAN 31-87	JAN 30-87	800	800	***	***	2	64648	2	1	64	
FEB 9-87	FEB 8-87	800	800	800	2000	3	64650	2	1	35	N
FEB 12-87	FEB 11-87	800	800	400	800	2	64651	2	1	37	N
FEB 22-87	FEB 21-87	800	800	700	900	2	64652	2	1	93	N
FEB 23-87	FEB 22-87	900	800	500	800	2	64653	2	1	97	
FEB 28-87	FEB 27-87	800	900	400	700	2	64654	2	1	49	N
MAR 1-87	FEB 28-87	900	900	2000	900	1	64655	2	1	112	C
MAR 3-87	MAR 2-87	900	800	1900	2300	2	64656	2	1	86	H
MAR 4-87	MAR 3-87	800	800	1000	1400	2	64657	2	1	94	C
MAR 13-87	MAR 12-87	800	800	500	700	2	64658	2	1	73	E
MAR 14-87	MAR 13-87	800	800	600	800	2	64659	2	1	80	B
MAR 15-87	MAR 14-87	800	800	800	1000	2	64660	2	1	54	H
MAR 26-87	MAR 25-87	800	800	400	700	1	64661	2	1	78	H
MAR 27-87	MAR 26-87	800	800	2100	1200	1	64662	2	1	71	
MAR 30-87	MAR 29-87	800	800	1100	1200	1	64663	2	1	85	
APR 3-87	MAR 31-87	800	800	2100	800	1	64664	2	1	116	C
APR 3-87	APR 1-87	800	800	1000	1200	2	64668	2	1	25	N
APR 5-87	APR 4-87	800	800	2000	100	1	64669	2	1	49	U
APR 5-87	APR 4-87	800	800	1000	1300	2	64669	2	1	39	CGE
APR 6-87	APR 5-87	800	800	1100	400	3	64670	2	1	39	N
APR 6-87	APR 5-87	800	800	1400	2000	1	64671	2	1	74	CDGE
APR 7-87	APR 6-87	800	800	1900	2000	1	64672	2	1	77	H
APR 12-87	APR 11-87	800	800	300	900	1	64673	2	1	56	
APR 13-87	APR 12-87	900	800	300	600	1	64674	2	1	98	B
APR 15-87	APR 14-87	800	800	1400	1600	1	64675	2	1	97	HM
APR 23-87	APR 22-87	800	800	400	800	1	64676	2	1	84	C
APR 24-87	APR 23-87	800	800	400	800	1	64677	2	1	93	C
APR 28-87	APR 27-87	800	800	800	1000	1	64678	2	1	86	CB
APR 28-87	APR 27-87	800	800	1400	1600	1	64679	2	1	98	A

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGHOODS/DAILY/AEROCHEN				#02	PAGE : 2				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PH6.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,87	JAN 1,87	212.0	26.4	4.31	4.32	*****	0.0763	0.85	0.80
JAN 3,87	JAN 2,87	116.0	14.8	4.72	4.71	*****	0.0430	0.70	0.36
JAN 8,87	JAN 7,87	97.0	62.5	*****	3.83	*****	0.1450	4.65	1.17
JAN 10,87	JAN 9,87	200.0	42.0	4.03	4.02	*****	0.1000	3.05	0.82
JAN 11,87	JAN 10,87	138.0	D	4.06	4.00	*****	0.1040	2.95	0.83
JAN 13,87	JAN 12,87	21.0	11.0	*****	5.70	*****	0.0234	1.60	0.23
JAN 15,87	JAN 14,87	312.0	44.1	4.03	3.98	*****	0.1100	2.95	0.84
JAN 17,87	JAN 16,87	*****	*****	*****	*****	*****	*****	*****	*****
JAN 19,87	JAN 18,87	30.0	11.6	*****	5.05	*****	0.0281	1.25	0.32
JAN 20,87	JAN 19,87	49.0	40.0	*****	4.11	*****	0.0875	1.15	1.31
JAN 23,87	JAN 22,87	116.0	53.3	*****	3.99	*****	0.1200	3.95	1.07
JAN 31,87	JAN 30,87	174.0	52.1	*****	3.97	*****	0.1240	4.05	0.80
FEB 9,87	FEB 8,87	122.0	19.3	6.20	6.41	*****	0.0169	3.05	0.73
FEB 12,87	FEB 11,87	34.0	40.8	UG	4.37	*****	0.0707	1.45	2.37
FEB 22,87	FEB 21,87	60.0	> 100.0	*****	3.94	*****	0.1590	UG 12.20	4.10
FEB 23,87	FEB 22,87	75.0	D	*****	4.14	*****	0.1000	3.05	1.52
FEB 28,87	FEB 27,87	19.0	26.8	*****	4.59	*****	0.0510	2.40	0.98
MAR 1,87	FEB 28,87	560.0	27.4	4.04	4.35	*****	0.0727	1.70	0.55
MAR 2,87	MAR 1,87	390.0	D	5.03	5.31	*****	0.0238	1.40	0.40
MAR 3,87	MAR 2,87	140.0	6.2	D	5.82	*****	0.0249	0.80	<N
MAR 4,87	MAR 3,87	47.0	9.0	4.85	6.71	*****	0.0160	1.25	0.13
MAR 13,87	MAR 12,87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 14,87	MAR 13,87	57.0	17.0	*****	5.47	*****	0.0217	0.60	1.20
MAR 15,87	MAR 14,87	14.0	12.7	*****	5.23	*****	0.0245	1.25	0.62
MAR 25,87	MAR 24,87	50.0	36.0	*****	5.18	*****	0.0327	UG 8.95	1.20
MAR 26,87	MAR 25,87	46.0	54.8	*****	4.13	*****	0.1100	7.10	2.06
MAR 27,87	MAR 26,87	77.0	38.0	*****	4.22	*****	0.0871	3.85	0.83
MAR 30,87	MAR 29,87	1477.0	31.2	4.21	4.23	*****	0.0627	2.85	0.48
APR 1,87	MAR 31,87	23.0	8.9	B	6.76	*****	0.0152	0.95	<N
APR 2,87	APR 1,87	443.0	*****	3.99	*****	*****	*****	*****	*****
APR 3,87	APR 2,87	70.0	26.5	*****	4.28	*****	0.0795	*****	*****
APR 5,87	APR 4,87	380.0	*****	4.63	*****	*****	*****	*****	*****
APR 6,87	APR 5,87	240.0	25.2	4.24	4.38	*****	0.0653	3.00	0.25
APR 7,87	APR 6,87	29.0	12.3	*****	6.39	D	0.0373	1.55	0.18
APR 12,87	APR 11,87	605.0	18.0	UG	6.05	*****	0.0295	3.40	0.40
APR 13,87	APR 12,87	325.0	9.0	*****	5.09	*****	0.0290	1.50	0.24
APR 15,87	APR 14,87	108.0	> 100.0	*****	7.61	*****	0.0365	B 19.00	<N
APR 23,87	APR 22,87	64.0	> 100.0	B	3.49	*****	0.4290	UG 20.00	5.30
APR 24,87	APR 23,87	78.0	51.0	*****	4.05	*****	0.1290	8.00	1.19
APR 26,87	APR 25,87	683.0	13.0	5.09	6.93	UG	0.0178	2.60	0.57

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGMOODS/DAILY/AEROCHEN				#02	PAGE : 3			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,87	JAN 1,87	0.20	0.33	0.030	0.035	0.045	0.115	0.0479
JAN 3,87	JAN 2,87	0.12	0.51	0.025	0.070	0.285	0.100	0.0195
JAN 8,87	JAN 7,87	0.16	0.24	0.030	0.080	0.090	0.770	0.1479
JAN 10,87	JAN 9,87	0.20	0.25	0.035	0.040	0.065	0.565	0.0955
JAN 11,87	JAN 10,87	0.18	0.21	0.030	0.045	0.085	0.485	0.1000
JAN 13,87	JAN 12,87	0.36	0.27	0.060	0.125	0.190	0.415	0.0020
JAN 15,87	JAN 14,87	0.10	0.51	0.030	0.175	D	0.395	0.1067
JAN 17,87	JAN 16,87	*****	*****	*****	*****	*****	*****	*****
JAN 19,87	JAN 18,87	0.38	0.19	0.055	0.070	0.090	0.265	0.0089
JAN 23,87	JAN 22,87	0.82	1.37	0.145	0.060	0.520	0.210	0.0776
JAN 30,87	JAN 29,87	0.42	0.47	0.055	0.110	0.230	0.535	0.1023
JAN 31,87	JAN 30,87	0.20	0.46	0.035	0.035	0.065	0.460	0.1072
FEB 9,87	FEB 8,87	1.38	0.25	0.225	0.060	0.120	0.600	0.0004
FEB 12,87	FEB 11,87	1.82	0.76	0.290	0.065	0.425	0.430	0.0427
FEB 22,87	FEB 21,87	6.22	2.05	0.965	0.085	0.900	1.250	0.1148
FEB 23,87	FEB 22,87	0.56	0.56	0.090	0.145	0.270	0.930	0.0724
FEB 26,87	FEB 25,87	1.34	0.38	0.195	0.045	0.235	0.200	0.0257
MAR 1,87	FEB 28,87	0.22	0.21	0.035	D	0.080	0.185	0.0447
MAR 2,87	MAR 1,87	0.66	0.14	0.120	<T	0.020	0.240	0.0049
MAR 3,87	MAR 2,87	<T	0.24	0.030	UG	0.170	0.005	0.0015
MAR 4,87	MAR 3,87	0.86	0.21	0.170	0.115	0.135	0.100	0.0002
MAR 13,87	MAR 12,87	*****	*****	*****	*****	*****	*****	*****
MAR 14,87	MAR 13,87	*****	0.56	*****	*****	*****	*****	*****
MAR 15,87	MAR 14,87	0.96	0.48	0.155	0.050	0.245	0.145	0.0034
MAR 25,87	MAR 24,87	3.66	0.71	0.545	0.195	0.355	0.720	0.0059
MAR 26,87	MAR 25,87	1.84	0.45	0.345	0.140	0.145	1.400	0.0066
MAR 27,87	MAR 26,87	0.30	0.81	0.060	D	0.290	D	0.0741
MAR 30,87	MAR 29,87	0.14	0.13	0.025	0.045	0.295	0.950	0.0603
APR 1,87	MAR 31,87	0.66	0.46	0.190	D	0.300	0.400	0.0589
APR 2,87	APR 1,87	*****	*****	*****	*****	0.230	*****	0.0002
APR 3,87	APR 2,87	*****	*****	*****	*****	*****	*****	*****
APR 5,87	APR 4,87	0.32	0.44	0.060	0.050	D	0.480	0.0525
APR 6,87	APR 5,87	0.54	0.29	0.110	0.155	0.240	0.580	0.0417
APR 7,87	APR 6,87	0.62	0.30	0.190	B	0.165	*****	0.0004
APR 12,87	APR 11,87	0.28	0.23	0.065	D	0.035	D	0.0001
APR 13,87	APR 12,87	0.63	0.83	B	0.370	0.035	0.340	0.0081
APR 15,87	APR 14,87	3.94	1.52	1.230	U	0.260	13.000	0.0000
APR 23,87	APR 22,87	7.40	1.52	1.130	0.305	0.320	1.450	0.3236
APR 24,87	APR 23,87	1.04	0.65	0.160	B	0.265	1.350	0.0891
APR 26,87	APR 25,87	0.84	0.37	0.160	D	0.075	0.730	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APLOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM										#02	PAGE : 4	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE	
				01-RAIN 02-SNOW		01-STID. 02-NIPHER		02-APIOS 03-SPECIAL	01-ROE 03-AES			
03-COMP/04-OTHER												
APR 29-87	APR 28-87	800 800	900 1100	1	1.4	1	64680	2	1	65	H	
MAY 11-87	MAY 10-87	800 800	1500 1600	1	0.8	1	64681	2	1	74	AC	
MAY 12-87	MAY 11-87	800 800	2200 2300	1	3.0	1	64682	2	1	85	BC	
MAY 15-87	MAY 14-87	800 800	1800 2100	1	10.8	1	64683	2	1	94	C	
MAY 19-87	MAY 18-87	800 800	900 1300	1	1.8	1	64684	2	1	113	BC	
MAY 22-87	MAY 21-87	800 800	700 800	1	4.4	1	64686	2	1	103	B	
MAY 31-87	MAY 30-87	800 800	2200 2400	1	0.6	1	64687	2	1	80	H	
JUN 2-87	JUN 1-87	800 800	700 1900	1	3.0	1	64688	2	1	89	H	
JUN 12-87	JUN 11-87	800 800	500 600	1	9.8	1	64689	2	1	96	BC	
JUN 13-87	JUN 12-87	800 800	2100 2130	1	1.8	1	64690	2	1	80	A	
JUN 14-87	JUN 13-87	800 800	2100 2200	1	1.2	1	64691	2	1	93	H	
JUN 22-87	JUN 21-87	800 800	2100 2200	1	11.6	1	64692	2	1	***	ET	
JUN 23-87	JUN 22-87	800 800	900 1100	1	3.4	1	64693	2	1	99	C	
JUN 26-87	JUN 25-87	800 800	100 200	1	5.0	1	64694	2	1	101	H	
JUN 28-87	JUN 27-87	800 800	2000 2100	1	5.1	1	64695	2	1	100	JH	
JUN 29-87	JUN 28-87	800 800	1400 1600	1	2.8	1	64696	2	1	97		
JUN 30-87	JUN 29-87	800 800	1900 2100	1	1.0	1	64697	2	1	57		
JUL 4-87	JUL 3-87	800 900	1500 1700	1	6.2	1	64698	2	1	103		
JUL 14-87	JUL 13-87	800 800	2100 900	1	21.6	1	64700	2	1	110		
JUL 26-87	JUL 25-87	800 900	500 600	1	3.0	1	64703	2	1	87		
JUL 28-87	JUL 27-87	800 930	1745 915	1	28.2	1	64704	2	1	103	J	
AUG 3-87	AUG 2-87	930 800	1600 1700	1	10.6	1	64707	2	1	103	J	
AUG 8-87	AUG 7-87	800 800	1900 2000	1	3.2	1	64708	2	1	95		
AUG 9-87	AUG 8-87	800 800	2100 900	1	14.0	1	64709	2	1	102	D	
AUG 10-87	AUG 9-87	800 800	900 1200	1	3.0	1	64710	2	1	93	J	
AUG 19-87	AUG 18-87	800 800	2000 2200	1	3.2	1	64711	2	1	78	H	
AUG 22-87	AUG 21-87	800 800	2130 200	1	4.0	1	64712	2	1	95	J	
AUG 27-87	AUG 26-87	800 800	1000 1700	1	23.8	1	64713	2	1	126	NJ	
AUG 28-87	AUG 27-87	800 800	2300 500	1	2.0	1	64716	2	1	68		
AUG 29-87	AUG 28-87	800 800	1000 2000	1	2.0	1	64717	2	1	46	NH	
AUG 31-87	AUG 30-87	800 800	2400 500	1	1.8	1	64718	2	1	84		
SEP 1-87	AUG 31-87	800 800	1100 1300	1	1.8	1	64719	2	1	86		
SEP 2-87	SEP 1-87	800 800	100 400	1	5.2	1	64720	2	1	91	NH	
SEP 10-87	SEP 9-87	800 800	2400 600	1	2.0	1	64721	2	1	80		
SEP 12-87	SEP 11-87	800 800	300 500	1	7.6	1	64722	2	1	99		
SEP 13-87	SEP 12-87	800 800	800 1100	1	8.0	1	64723	2	1	96		
SEP 16-87	SEP 15-87	800 800	1700 1900	1	4.2	1	64724	2	1	***	IEFK	
SEP 18-87	SEP 17-87	800 800	800 1000	1	73.1	1	64725	2	1	109	J	
SEP 20-87	SEP 19-87	800 800	815 1200	1	2.6	1	64728	2	1	71		
SEP 21-87	SEP 20-87	800 800	2200 200	1	7.8	1	64729	2	1	97		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIDS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGHOODS/DAILY/AERO/CHEM

#02

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H ⁺ TO PHB.3 HG/L	TOTAL H ⁺ GRAM HG/L	SULPHATE HG/L	NITRATE AS N HG/L
APR 29,87	APR 28,87	59.0	8.4	*****	5.83	*****	0.0207	1.75	LG 0.03
MAY 11,87	MAY 10,87	38.0	83.3	*****	7.68	*****	0.0012	12.65	UG 2.99
MAY 12,87	MAY 11,87	165.0	30.4	UG	6.63	*****	0.0283	6.75	1.11
MAY 15,87	MAY 14,87	654.0	25.1	D	4.44	*****	0.0648	3.70	0.45
MAY 19,87	MAY 18,87	131.0	93.1	3.94	4.44	*****	0.0271	5.50	2.09
MAY 22,87	MAY 21,87	293.0	45.0	4.09	4.17	*****	0.1030	5.50	0.70
MAY 31,87	MAY 30,87	31.0	43.4	*****	5.06	*****	0.0359	6.90	1.89
JUN 2,87	JUN 1,87	172.0	55.2	3.93	4.07	*****	0.1220	6.35	0.94
JUN 12,87	JUN 11,87	608.0	20.9	4.58	4.88	*****	0.0383	3.45	0.49
JUN 13,87	JUN 12,87	93.0	28.6	*****	5.65	*****	0.0261	5.10	0.85
JUN 14,87	JUN 13,87	72.0	31.7	*****	6.68	*****	0.0207	4.35	1.21
JUN 22,87	JUN 21,87	*****	*****	*****	*****	*****	*****	*****	*****
JUN 23,87	JUN 22,87	217.0	66.4	3.73	3.88	*****	0.1540	7.00	0.92
JUN 25,87	JUN 24,87	324.0	100.0	3.51	3.58	*****	0.3060	11.00	1.55
JUN 28,87	JUN 27,87	328.0	12.3	4.98	5.14	*****	0.0261	1.65	0.25
JUN 29,87	JUN 28,87	175.0	29.1	5.16	5.75	*****	0.0254	5.70	1.15
JUN 30,87	JUN 29,87	37.0	52.1	*****	4.06	*****	*****	5.25	1.55
JUL 4,87	JUL 3,87	413.0	39.9	4.09	4.09	*****	0.1070	4.80	0.55
JUL 14,87	JUL 13,87	1529.0	27.3	*****	4.30	*****	0.0712	2.60	0.55
JUL 16,87	JUL 15,87	169.0	33.0	*****	4.96	*****	0.0372	8.25	0.98
AUG 2,87	AUG 1,87	1676.0	21.0	3.85	4.48	*****	0.0610	3.30	0.35
AUG 3,87	AUG 2,87	719.0	21.5	3.90	4.45	*****	0.0635	2.85	0.38
AUG 8,87	AUG 7,87	196.0	53.0	3.95	4.19	*****	0.1150	8.80	1.55
AUG 9,87	AUG 8,87	916.0	55.0	3.76	3.93	*****	0.1640	6.95	0.55
AUG 10,87	AUG 9,87	179.0	41.0	3.88	4.07	*****	0.1230	4.85	0.66
AUG 19,87	AUG 18,87	161.0	11.5	3.68	6.10	*****	0.0190	1.80	0.47
AUG 22,87	AUG 21,87	245.0	37.0	3.69	4.14	*****	0.1000	3.75	0.72
AUG 27,87	AUG 26,87	1934.0	25.0	3.76	4.28	*****	0.0760	2.10	0.42
AUG 28,87	AUG 27,87	88.0	14.0	*****	6.26	*****	0.0208	1.80	0.73
AUG 29,87	AUG 28,87	60.0	13.0	*****	6.13	*****	0.0184	2.35	0.38
AUG 31,87	AUG 30,87	98.0	41.5	*****	4.19	*****	0.1020	5.30	0.78
SEP 1,87	AUG 31,87	100.0	32.0	4.09	4.33	*****	0.0774	4.20	0.52
SEP 2,87	SEP 1,87	306.0	4.0	*****	5.48	*****	0.0188	0.45	LG 0.12
SEP 10,87	SEP 9,87	103.0	29.0	6.48	6.80	*****	0.0178	6.65	0.84
SEP 12,87	SEP 11,87	486.0	< 100.0	3.54	3.60	*****	0.2810	10.75	1.22
SEP 13,87	SEP 12,87	497.0	67.0	3.69	3.82	*****	0.1810	6.95	0.83
SEP 16,87	SEP 15,87	*****	*****	*****	*****	*****	*****	*****	*****
SEP 18,87	SEP 17,87	5111.0	24.0	3.84	4.37	*****	0.0714	2.70	0.45
SEP 20,87	SEP 19,87	119.0	46.0	3.78	3.99	*****	0.1310	3.70	0.76
SEP 21,87	SEP 20,87	486.0	35.0	4.04	4.26	*****	0.0853	3.60	0.90

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

PAGE : 6

#02

STATION NAME : LONGWOODS/DAILY/AEROCHEM

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 29,87	APR 28,87	0.18	0.08	0.030	0.040	0.040	0.445	0.0015
MAY 11,87	MAY 10,87	6.68	1.30	1.080	UG	UG	UG	0.0000
MAY 12,87	MAY 11,87	2.16	0.42	0.410	0.245	0.135	UG	0.0002
MAY 15,87	MAY 14,87	0.96	0.12	0.130	0.025	<T	D	0.0363
MAY 19,87	MAY 18,87	1.72	1.68	0.375	UG	0.175	18.750	0.0000
MAY 22,87	MAY 21,87	0.60	0.46	0.100	B	0.220	0.765	0.0676
MAY 31,87	MAY 30,87	2.98	0.50	0.620	B	0.215	0.705	0.0087
JUN 2,87	JUN 1,87	1.10	0.22	0.170	0.110	0.090	1.000	0.0851
JUN 12,87	JUN 11,87	1.04	0.16	0.210	B	0.025	0.155	0.0132
JUN 13,87	JUN 12,87	0.64	0.27	0.185	0.190	0.105	1.700	0.0022
JUN 14,87	JUN 13,87	1.30	0.34	0.280	0.180	0.095	1.950	0.0002
JUN 22,87	JUN 21,87	0.36	0.19	0.055	0.055	0.045	1.250	0.1310
JUN 23,87	JUN 22,87	0.48	0.22	0.115	0.125	0.095	0.695	0.2630
JUN 26,87	JUN 25,87	0.24	0.85	0.055	0.050	0.060	0.305	0.0072
JUN 28,87	JUN 27,87	2.12	0.90	0.450	0.105	0.060	0.830	0.0018
JUN 30,87	JUN 29,87	0.56	0.90	0.095	UG	UG	0.670	0.0871
JUL 14,87	JUL 13,87	0.16	0.15	0.090	<T	<T	0.490	0.0813
JUL 26,87	JUL 25,87	3.10	0.32	0.350	UG	0.020	0.320	0.0501
AUG 2,87	AUG 1,87	0.64	0.15	0.090	0.085	0.055	0.515	0.0110
AUG 5,87	AUG 4,87	0.52	0.09	0.040	<T	<T	0.420	0.0331
AUG 8,87	AUG 7,87	2.28	0.53	0.450	0.015	0.025	0.430	0.0355
AUG 9,87	AUG 8,87	0.28	0.14	0.055	0.160	0.095	1.100	0.0646
AUG 10,87	AUG 9,87	0.16	0.13	<T	0.055	0.030	0.540	0.1175
AUG 19,87	AUG 18,87	0.68	0.16	0.130	D	0.040	0.685	0.0851
AUG 22,87	AUG 21,87	0.66	0.20	0.130	D	0.085	0.365	0.0008
AUG 27,87	AUG 26,87	0.16	0.11	0.030	0.095	0.045	0.335	0.0724
AUG 28,87	AUG 27,87	1.34	0.27	0.115	0.045	0.025	0.110	0.0525
AUG 29,87	AUG 28,87	0.76	0.12	0.130	0.065	0.115	0.240	0.0005
AUG 31,87	AUG 30,87	0.52	0.17	0.090	D	0.035	0.380	0.0007
SEP 1,87	SEP 31,87	0.38	0.20	0.070	0.080	<T	0.900	0.0646
SEP 2,87	SEP 1,87	0.04	0.03	0.010	0.085	0.020	0.665	0.0468
SEP 10,87	SEP 9,87	2.38	0.41	0.360	0.165	<T	1.000	0.0003
SEP 12,87	SEP 11,87	0.54	0.30	0.055	0.030	<T	0.100	0.0033
SEP 13,87	SEP 12,87	0.16	0.15	0.015	0.015	<T	0.645	0.2512
SEP 16,87	SEP 15,87	0.12	0.10	0.015	0.045	<T	0.625	0.1514
SEP 18,87	SEP 17,87	0.08	0.13	0.015	0.045	<T	0.575	0.0427
SEP 20,87	SEP 19,87	0.08	0.13	0.010	0.075	0.030	0.185	0.1023
SEP 21,87	SEP 20,87	0.44	0.16	0.075	D	0.085	0.725	0.0550

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGMOODS/DAILY/AEROCHEN #02

PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH (MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-STD.		02-APIOS	01-HOE		
				02-SNOW		02-NIPHER		03-SPECIAL	03-AES		
				03-COMP/04-OTHER							
SEP 30-87	SEP 29-87	800	800	1300	1600	1	64730	2	1	88	
OCT 2-87	OCT 1-87	800	800	300	400	1	64731	2	1	87	
OCT 3-87	OCT 2-87	800	800	2300	600	1	64732	2	1	94	H
OCT 6-87	OCT 5-87	800	800	2000	2400	1	64733	2	1	75	
OCT 8-87	OCT 7-87	800	800	100	800	1	64734	2	1	96	HM
OCT 12-87	OCT 11-87	800	800	2000	300	1	64735	2	1	111	
OCT 23-87	OCT 22-87	800	800	1400	2100	1	64737	2	1	82	H
OCT 25-87	OCT 24-87	800	800	1000	2200	1	64738	2	1	15	F
OCT 27-87	OCT 26-87	800	800	****	****	1	64739	2	1	****	EF
OCT 28-87	OCT 27-87	800	800	700	800	1	64740	2	1	35	N
OCT 29-87	OCT 28-87	800	800	800	845	1	64741	2	1	116	C
NOV 2-87	NOV 1-87	800	800	900	1100	1	64742	2	1	85	
NOV 3-87	NOV 2-87	800	800	500	700	1	64743	2	1	100	
NOV 9-87	NOV 8-87	800	800	1700	1900	1	64744	2	1	95	
NOV 14-87	NOV 13-87	800	800	2000	200	1	64745	2	1	82	H
NOV 17-87	NOV 16-87	800	800	800	1000	1	64746	2	1	117	
NOV 21-87	NOV 20-87	800	800	1600	800	2	64747	2	1	69	J
NOV 22-87	NOV 21-87	800	800	1000	1700	2	64750	2	1	106	JHCH
NOV 28-87	NOV 24-87	800	800	200	800	1	64751	2	1	87	J
NOV 28-87	NOV 25-87	800	800	800	1900	1	64752	2	1	97	JH
NOV 29-87	NOV 28-87	800	800	3500	600	1	64753	2	1	95	JHM
DEC 1-87	NOV 30-87	800	800	100	800	1	64754	2	1	54	
DEC 2-87	DEC 1-87	800	800	2300	500	2	64755	2	1	56	JH
DEC 4-87	DEC 3-87	800	800	1200	2000	2	64756	2	1	65	J
DEC 5-87	DEC 4-87	800	800	500	800	1	64757	2	1	114	N
DEC 9-87	DEC 8-87	800	800	500	800	1	64758	2	1	113	
DEC 10-87	DEC 9-87	800	800	800	1000	1	64759	2	1	82	C
DEC 12-87	DEC 11-87	800	800	1900	200	1	64760	2	1	109	
DEC 13-87	DEC 12-87	800	800	****	****	2	64761	2	1	****	E
DEC 15-87	DEC 14-87	800	800	200	600	3	64762	2	1	42	NH
DEC 16-87	DEC 15-87	800	800	800	1300	3	64763	2	1	52	H
DEC 17-87	DEC 16-87	800	800	800	1200	2	64764	2	1	****	CD
DEC 20-87	DEC 19-87	800	800	1800	600	1	64765	2	1	104	FIKE
DEC 25-87	DEC 24-87	800	800	1200	2400	1	64768	2	1	119	
DEC 29-87	DEC 28-87	800	800	1900	2200	2	64769	2	1	61	CH

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEN				#02	PAGE : 8				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 29.87	SEP 29.87	198.0	68.0	3.84	3.96	*****	0.1490	7.85	0.85
OCT 2.87	OCT 1.87	146.0	30.0	UG	6.98	*****	0.0185	5.35	0.89
OCT 3.87	OCT 2.87	388.0	3.0	UG	5.39	*****	0.0181	LG	0.08
OCT 6.87	OCT 5.87	63.0	27.5	*****	6.21	*****	0.0213	4.30	1.16
OCT 8.87	OCT 7.87	579.0	3.5	UG	5.95	*****	0.0193	LG	0.07
OCT 12.87	OCT 11.87	472.0	6.0	UG	6.69	*****	0.0192	LG	0.19
OCT 23.87	OCT 22.87	574.0	15.0	*****	4.66	*****	0.0451	2.00	0.54
OCT 25.87	OCT 24.87	176.0	*****	*****	6.06	*****	0.0223	IIS	*****
OCT 27.87	OCT 26.87	*****	*****	*****	*****	*****	*****	*****	*****
OCT 28.87	OCT 27.87	23.0	9.0	*****	8.24	*****	0.0096	D	0.21
OCT 29.87	OCT 28.87	165.0	12.0	*****	4.68	*****	0.0444	1.60	0.67
NOV 2.87	NOV 1.87	422.0	71.0	*****	3.93	*****	0.1930	7.70	>
NOV 3.87	NOV 2.87	122.0	59.0	*****	3.97	*****	0.1710	8.25	0.89
NOV 9.87	NOV 8.87	184.0	26.0	4.18	4.41	*****	0.0749	3.90	0.83
NOV 14.87	NOV 13.87	53.0	23.0	*****	5.04	*****	0.0385	5.30	0.88
NOV 17.87	NOV 16.87	75.0	10.0	*****	5.43	*****	0.0235	2.45	0.32
NOV 21.87	NOV 20.87	753.0	2.5	UG	6.66	*****	0.0170	LG	0.07
NOV 22.87	NOV 21.87	232.0	0.5	4.94	5.99	*****	0.0173	LG	0.02
NOV 25.87	NOV 24.87	795.0	19.0	3.71	4.38	*****	0.0676	1.50	0.38
NOV 26.87	NOV 25.87	2073.0	14.0	3.81	4.49	*****	0.0565	1.15	0.18
NOV 29.87	NOV 28.87	577.0	14.0	3.84	4.50	*****	0.0520	1.25	0.28
DEC 1.87	NOV 30.87	35.0	24.0	*****	5.45	*****	0.0339	3.05	0.65
DEC 2.87	DEC 1.87	146.0	7.0	4.75	6.29	*****	0.0191	0.85	0.15
DEC 4.87	DEC 3.87	244.0	30.0	3.53	4.18	*****	0.0934	2.10	0.84
DEC 5.87	DEC 4.87	52.0	3.5	*****	6.20	*****	0.0170	0.70	0.09
DEC 9.87	DEC 8.87	363.0	51.0	3.63	3.94	*****	0.1310	4.35	0.72
DEC 10.87	DEC 9.87	95.0	16.0	*****	4.55	*****	0.0456	1.70	0.33
DEC 12.87	DEC 11.87	422.0	31.0	3.82	4.16	*****	0.0874	1.75	0.84
DEC 13.87	DEC 12.87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 15.87	DEC 14.87	533.0	12.0	4.20	5.63	*****	0.0238	2.15	0.20
DEC 16.87	DEC 15.87	362.0	23.0	4.32	4.38	*****	0.0704	2.15	0.41
DEC 17.87	DEC 16.87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 20.87	DEC 19.87	1171.0	31.0	*****	4.26	*****	0.0869	2.20	0.54
DEC 25.87	DEC 24.87	323.0	38.0	4.16	4.18	*****	0.1040	3.05	0.68
DEC 29.87	DEC 28.87	59.0	10.0	*****	7.20	*****	0.0157	0.55	0.30

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM				#02	PAGE : 9			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 30,87	SEP 29,87	0.90	0.47	0.120	0.135	0.150	0.830	0.1096
SEP 2,87	OCT 1,87	2.30	0.16	0.300	0.195	UG	1.050	0.0001
OCT 3,87	OCT 2,87	0.14	0.045	0.025	0.045	0.030	0.150	0.0016
OCT 6,87	OCT 5,87	2.08	0.56	0.360	0.385	UG	0.640	0.0006
OCT 8,87	OCT 7,87	0.10	0.12	<T	0.080	0.060	0.150	0.0011
OCT 12,87	OCT 11,87	0.22	0.30	0.030	0.060	0.050	0.330	0.0002
OCT 25,87	OCT 22,87	0.20	0.31	0.035	0.090	D	0.465	0.0219
OCT 25,87	OCT 26,87	*****	*****	*****	*****	*****	*****	0.0009
OCT 27,87	OCT 26,87	*****	*****	*****	*****	*****	*****	*****
OCT 28,87	OCT 27,87	0.28	1.27	0.045	0.760	B	0.710	0.0000
OCT 29,87	OCT 28,87	0.54	0.30	0.090	0.080	0.105	0.385	0.0209
NOV 2,87	NOV 1,87	1.20	0.63	0.170	0.275	0.335	0.850	0.1175
NOV 3,87	NOV 2,87	0.64	0.70	0.075	0.205	0.360	0.665	0.1072
NOV 9,87	NOV 8,87	0.70	0.67	0.080	D	0.350	0.415	0.0389
NOV 16,87	NOV 15,87	2.04	0.50	0.325	0.150	0.150	0.685	0.0091
NOV 17,87	NOV 16,87	1.06	0.49	0.210	0.085	0.220	0.0037	0.0037
NOV 21,87	NOV 20,87	0.30	0.06	0.060	0.120	0.085	0.085	0.0002
NOV 22,87	NOV 21,87	<T	0.16	0.020	<T	0.020	0.075	0.0010
NOV 25,87	NOV 24,87	0.20	0.15	0.035	D	0.135	0.150	0.0417
NOV 26,87	NOV 25,87	<T	0.08	0.010	D	0.055	0.035	0.0324
NOV 29,87	NOV 28,87	0.18	0.05	0.040	<T	0.020	0.035	0.0316
DEC 1,87	NOV 30,87	D	0.64	D	1.400	B	1.270	D
DEC 2,87	DEC 1,87	0.30	2.10	0.105	D	0.300	0.280	0.0005
DEC 4,87	DEC 3,87	0.32	0.31	0.045	D	0.025	0.480	0.0661
DEC 5,87	DEC 4,87	0.22	0.15	0.040	<T	0.050	0.120	0.0006
DEC 9,87	DEC 8,87	0.26	0.92	0.070	0.085	0.055	0.230	0.1148
DEC 10,87	DEC 9,87	D	0.23	D	0.080	0.080	0.105	0.0282
DEC 13,87	DEC 12,87	0.23	0.11	0.035	<T	0.015	0.235	0.0692
DEC 13,87	DEC 12,87	*****	*****	*****	*****	*****	*****	*****
DEC 15,87	DEC 14,87	0.28	0.91	0.045	B	0.440	0.435	0.0023
DEC 16,87	DEC 15,87	0.60	0.40	0.075	D	0.135	0.265	0.0817
DEC 17,87	DEC 16,87	*****	*****	*****	*****	*****	*****	*****
DEC 20,87	DEC 19,87	0.16	0.12	0.030	<T	0.015	0.085	0.0550
DEC 25,87	DEC 24,87	0.24	0.22	0.030	<T	0.025	0.075	0.0661
DEC 29,87	DEC 28,87	1.14	0.15	0.195	0.035	0.060	0.400	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APLOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM

#01

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APLOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 2,87	JAN 1,87	800 800	800 800	03-COMP/04-OTHER	4.6	2	61372	2	1	50	
JAN 3,87	JAN 2,87	800 800	800 800	03-COMP/04-OTHER	1.0	2	61373	2	1	34	N
JAN 7,87	JAN 6,87	800 800	800 800	03-COMP/04-OTHER	0.2	2	61374	2	1	140	N
JAN 10,87	JAN 9,87	800 800	800 800	03-COMP/04-OTHER	9.0	2	61375	2	1	40	NH
JAN 11,87	JAN 10,87	800 800	800 800	03-COMP/04-OTHER	0.8	2	61376	2	1	58	X
JAN 15,87	JAN 14,87	800 800	800 800	03-COMP/04-OTHER	4.8	2	61377	2	1	99	
JAN 19,87	JAN 18,87	800 800	800 800	03-COMP/04-OTHER	6.6	2	61378	2	1	82	
JAN 20,87	JAN 19,87	800 800	800 800	03-COMP/04-OTHER	8.8	2	61379	2	1	17	NC
JAN 23,87	JAN 22,87	800 800	800 800	03-COMP/04-OTHER	0.8	2	61380	2	1	79	
JAN 25,87	JAN 24,87	800 800	800 800	03-COMP/04-OTHER	2.4	2	61382	2	1	47	N
JAN 30,87	JAN 29,87	800 800	800 800	03-COMP/04-OTHER	2.0	2	61383	2	1	59	
JAN 31,87	JAN 30,87	800 800	800 800	03-COMP/04-OTHER	1.6	2	61384	2	1	***	FEI
FEB 9,87	FEB 8,87	800 800	800 800	03-COMP/04-OTHER	1.4	2	61385	2	1	82	
FEB 12,87	FEB 11,87	800 800	800 800	03-COMP/04-OTHER	0.8	2	61386	2	1	46	
FEB 13,87	FEB 12,87	800 800	800 800	03-COMP/04-OTHER	0.8	2	61387	2	1	78	E
FEB 14,87	FEB 13,87	800 800	800 800	03-COMP/04-OTHER	1.8	2	61388	2	1	78	
FEB 23,87	FEB 22,87	800 800	800 800	03-COMP/04-OTHER	0.6	2	61389	2	1	135	N
FEB 28,87	FEB 27,87	800 800	800 800	03-COMP/04-OTHER	8.0	2	61390	2	1	100	
MAR 1,87	FEB 28,87	800 800	800 800	03-COMP/04-OTHER	6.0	2	61391	2	1	85	
MAR 2,87	MAR 1,87	800 800	800 800	03-COMP/04-OTHER	0.4	2	61392	2	1	***	EK
MAR 4,87	MAR 3,87	800 800	800 800	03-COMP/04-OTHER	0.1	2	61393	2	1	***	EK
MAR 12,87	MAR 11,87	800 800	800 800	03-COMP/04-OTHER	0.6	2	61394	2	1	64	
MAR 14,87	MAR 13,87	800 800	800 800	03-COMP/04-OTHER	0.4	2	61395	2	1	42	
MAR 15,87	MAR 14,87	800 800	800 800	03-COMP/04-OTHER	0.6	1	61396	2	1	59	N
MAR 25,87	MAR 24,87	800 800	800 800	03-COMP/04-OTHER	0.8	1	61397	2	1	52	
MAR 26,87	MAR 25,87	800 800	800 800	03-COMP/04-OTHER	1.0	1	61398	2	1	79	
MAR 27,87	MAR 26,87	800 800	800 800	03-COMP/04-OTHER	17.0	1	61399	2	1	96	
MAR 30,87	MAR 29,87	800 800	800 800	03-COMP/04-OTHER	5.8	2	61400	2	1	35	NC
MAR 31,87	MAR 30,87	800 800	800 800	03-COMP/04-OTHER	7.2	2	61401	2	1	4	N
APR 1,87	APR 31,87	800 800	800 800	03-COMP/04-OTHER	5.8	2	61402	2	1	78	
APR 2,87	APR 1,87	800 800	800 800	03-COMP/04-OTHER	1.0	2	61403	2	1	105	
APR 5,87	APR 4,87	800 800	800 800	03-COMP/04-OTHER	5.8	2	61404	2	1	110	
APR 6,87	APR 5,87	800 800	800 800	03-COMP/04-OTHER	0.6	2	61405	2	1	13	E
APR 7,87	APR 6,87	800 800	800 800	03-COMP/04-OTHER	13.8	2	61406	2	1	100	
APR 12,87	APR 11,87	800 800	800 800	03-COMP/04-OTHER	1.2	1	61407	2	1	66	
APR 13,87	APR 12,87	800 800	800 800	03-COMP/04-OTHER	0.2	1	61408	2	1	***	KE
APR 14,87	APR 13,87	800 800	800 800	03-COMP/04-OTHER	1.4	1	61409	2	1	94	
APR 15,87	APR 14,87	800 800	800 800	03-COMP/04-OTHER	1.4	1	61410	2	1	72	A
APR 23,87	APR 22,87	800 800	800 800	03-COMP/04-OTHER	9.8	1	61411	2	1	78	
APR 24,87	APR 23,87	800 800	800 800	03-COMP/04-OTHER	1.4	1	61412	2	1	88	AB
APR 26,87	APR 25,87	800 800	800 800	03-COMP/04-OTHER	9.4	1	61413	2	1	88	AB

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AERO/CHEM				801	PAGE : 2				
REMOVAL DATE	EXPOSURE DATE	VOLUME HL	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PHB-3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2-87	JAN 1-87	156.0	24.5	*****	4.20	*****	0.0664	LG	0.50
JAN 3-87	JAN 2-87	22.0	7.3	*****	5.57	*****	0.0199		0.72
JAN 7-87	JAN 6-87	18.0	34.1	*****	4.26	*****	0.0666	D	0.27
JAN 10-87	JAN 9-87	232.0	47.5	4.04	3.94	*****	0.1150	3.30	1.24
JAN 11-87	JAN 10-87	30.0	*****	*****	*****	*****	*****	*****	0.94
JAN 15-87	JAN 14-87	307.0	44.6	4.08	3.99	*****	0.1140	2.95	0.79
JAN 18-87	JAN 18-87	349.0	31.2	4.25	4.13	*****	0.0797	2.25	0.53
JAN 20-87	JAN 19-87	100.0	5.0	5.35	5.41	*****	0.0199	LG	0.45
JAN 23-87	JAN 22-87	41.0	45.1	*****	3.97	*****	0.1080	1.20	1.18
JAN 30-87	JAN 29-87	73.0	73.7	*****	3.80	*****	0.1920	4.35	1.61
JAN 31-87	JAN 30-87	76.0	58.2	*****	3.94	*****	0.1470	3.90	1.05
FEB 9-87	FEB 8-87	*****	*****	*****	*****	*****	*****	*****	*****
FEB 12-87	FEB 11-87	74.0	50.4	*****	4.04	*****	0.1150	2.40	1.79
FEB 13-87	FEB 12-87	24.0	27.9	*****	4.33	*****	0.0678	1.65	0.78
FEB 14-87	FEB 13-87	40.0	*****	*****	*****	*****	*****	*****	*****
FEB 23-87	FEB 22-87	90.0	100.0	*****	3.60	*****	0.1860	UG	3.45
FEB 26-87	FEB 27-87	52.0	76.2	*****	3.75	*****	0.2080	7.35	2.18
MAR 1-87	FEB 28-87	514.0	31.7	4.16	4.31	*****	0.0838	1.80	0.58
MAR 2-87	MAR 1-87	329.0	24.1	4.33	4.44	*****	0.0651	D	0.93
MAR 4-87	MAR 3-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 12-87	MAR 11-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 14-87	MAR 13-87	25.0	20.0	*****	4.39	*****	0.0555	LG	0.35
MAR 15-87	MAR 14-87	11.0	14.5	*****	4.51	*****	0.0449	LG	0.35
MAR 25-87	MAR 24-87	23.0	36.9	*****	4.36	*****	0.0753	5.20	0.41
MAR 26-87	MAR 25-87	27.0	50.9	*****	4.29	*****	0.0877	5.95	0.91
MAR 27-87	MAR 26-87	51.0	57.4	*****	4.09	*****	0.1290	D	1.80
MAR 30-87	MAR 29-87	1052.0	28.1	4.21	4.31	*****	0.0755	2.70	0.48
MAR 31-87	MAR 30-87	133.0	9.9	4.75	4.96	*****	0.0273	0.95	0.13
APR 1-87	MAR 31-87	3.0	*****	*****	*****	*****	*****	*****	*****
APR 2-87	APR 1-87	364.0	56.0	3.96	4.03	*****	0.1300	3.70	1.85
APR 5-87	APR 4-87	394.0	11.7	4.60	4.82	*****	0.0340	D	0.16
APR 6-87	APR 5-87	241.0	21.1	4.40	4.54	*****	0.0513	2.65	0.25
APR 7-87	APR 6-87	5.0	*****	*****	*****	*****	*****	*****	*****
APR 12-87	APR 11-87	893.0	17.0	*****	4.45	*****	0.0552	2.10	0.36
APR 13-87	APR 12-87	51.0	20.0	*****	4.41	*****	0.0636	2.15	0.54
APR 14-87	APR 13-87	*****	*****	*****	*****	*****	*****	*****	*****
APR 15-87	APR 14-87	231.0	90.0	*****	3.67	*****	0.2600	UG	11.00
APR 23-87	APR 22-87	65.0	100.0	*****	3.91	*****	0.1980	UG	6.20
APR 24-87	APR 23-87	91.0	71.0	*****	3.61	*****	0.2000	UG	1.20
APR 26-87	APR 27-87	535.0	19.0	D	4.40	*****	0.0390	2.65	0.69

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEN				#01	PAGE : 3			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2-87	JAN 1-87	0.12	0.21	<T	0.015	<T	0.030	0.110
JAN 3-87	JAN 2-87	0.24	0.12	0.040	0.025	0.080	0.205	0.0631
JAN 5-87	JAN 6-87	1.16	0.38	0.150	0.095	0.210	D	0.0027
JAN 7-87	JAN 9-87	0.22	0.25	0.035	0.040	0.060	0.560	0.0525
JAN 11-87	JAN 10-87	0.14	0.24	0.020	0.050	0.040	0.345	0.1148
JAN 12-87	JAN 14-87	0.14	0.28	0.035	0.015	0.040	0.250	0.1023
JAN 19-87	JAN 18-87	0.24	0.04	0.025	0.020	0.035	0.065	0.0741
JAN 20-87	JAN 19-87	0.14	0.10	0.065	0.035	0.260	0.250	0.0059
JAN 23-87	JAN 22-87	0.38	1.10	0.065	0.030	0.125	0.730	0.1072
JAN 30-87	JAN 29-87	0.36	0.46	0.060	0.050	0.100	0.715	0.1585
JAN 31-87	JAN 30-87	0.10	0.48	0.025	0.050	0.100	0.715	0.1148
FEB 9-87	FEB 8-87	0.94	0.65	0.130	0.040	0.265	0.460	0.0912
FEB 12-87	FEB 11-87	0.36	0.49	0.040	0.020	0.360	0.375	0.0468
FEB 13-87	FEB 12-87	0.49	0.49	0.040	0.040	0.455	0.000	0.1585
FEB 14-87	FEB 13-87	0.49	1.11	0.555	0.040	0.620	0.415	0.1778
FEB 23-87	FEB 22-87	3.60	1.28	0.175	0.225	0.620	0.415	0.0490
FEB 28-87	FEB 27-87	0.12	0.15	0.025	0.015	0.055	0.165	0.0363
MAR 1-87	FEB 28-87	0.20	0.17	<T	0.035	0.050	0.250	0.0363
MAR 2-87	MAR 1-87	0.20	0.17	<T	0.025	0.035	0.250	0.0363
MAR 4-87	MAR 3-87	0.20	0.17	<T	0.025	0.035	0.250	0.0363
MAR 12-87	MAR 11-87	0.20	0.17	<T	0.025	0.035	0.250	0.0363
MAR 14-87	MAR 13-87	0.52	0.21	0.080	0.030	0.065	0.100	0.0407
MAR 15-87	MAR 14-87	0.12	0.21	0.015	0.030	0.100	0.035	0.0309
MAR 25-87	MAR 24-87	1.84	0.47	0.280	0.100	0.220	0.0437	0.0437
MAR 26-87	MAR 25-87	1.94	0.51	0.340	0.135	0.235	0.0513	0.0513
MAR 27-87	MAR 26-87	0.56	0.61	0.100	0.090	0.125	1.970	0.0813
MAR 30-87	MAR 29-87	0.14	0.12	0.030	0.030	0.045	0.455	0.0490
MAR 31-87	MAR 30-87	0.06	0.09	0.015	0.055	0.065	0.110	0.0110
APR 1-87	MAR 31-87	0.06	0.09	0.015	0.055	0.065	0.110	0.0110
APR 2-87	MAR 31-87	0.06	0.09	0.015	0.055	0.065	0.110	0.0110
APR 5-87	APR 4-87	0.04	0.06	0.010	0.015	0.040	0.240	0.0151
APR 6-87	APR 5-87	0.10	0.34	0.030	0.050	0.200	0.500	0.0288
APR 7-87	APR 6-87	0.08	0.21	0.035	0.005	0.010	0.300	0.0355
APR 12-87	APR 11-87	0.14	0.22	0.015	0.015	0.025	0.470	0.0389
APR 13-87	APR 12-87	0.14	0.22	0.015	0.015	0.025	0.470	0.0389
APR 14-87	APR 13-87	0.14	0.22	0.015	0.015	0.025	0.470	0.0389
APR 15-87	APR 14-87	0.78	0.52	0.100	0.085	0.130	1.000	0.2138
APR 23-87	APR 22-87	10.40	1.85	1.620	0.510	0.510	2.100	0.1230
APR 24-87	APR 23-87	0.72	0.42	0.100	0.095	0.150	1.250	0.1549
APR 28-87	APR 27-87	0.66	0.29	0.115	0.065	0.050	0.760	0.0155

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEN

#01

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. /HR.	PRECIP START/END HR. /HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
APR 29.67	APR 26.67	600	930	1200	1	1	61413	2	1	1000	E N
MAY 11.67	MAY 10.67	800	1430	1530	1	1	61414	2	1	1000	E N
MAY 12.67	MAY 11.67	800	2200	2230	1	2	61415	2	1	96	FJCB JM
MAY 15.67	MAY 14.67	800	19.0	19.0	1	1	61416	2	1	58	U
MAY 16.67	MAY 17.67	800	19.0	19.0	1	1	61417	2	1	90	AB
MAY 19.67	MAY 18.67	800	900	1200	1	1	61418	2	1	61	
MAY 20.67	MAY 19.67	800	800	1200	1	1	61420	2	1	76	
MAY 25.67	MAY 24.67	800	800	1200	1	1	61421	2	1	1000	E N
MAY 26.67	MAY 25.67	800	800	1200	1	1	61422	2	1	1000	E N
MAY 27.67	MAY 26.67	800	1500	1530	1	1	61423	2	1	94	
MAY 31.67	MAY 30.67	800	2300	2330	1	1	61424	2	1	36	
JUN 1.67	MAY 31.67	800	1700	1730	1	1	61425	2	1	102	N
JUN 3.67	JUN 2.67	800	800	1200	1	1	61426	2	1	88	BCD JHM
JUN 7.67	JUN 6.67	800	2200	2230	1	1	61427	2	1	89	
JUN 12.67	JUN 11.67	800	100	500	1	1	61428	2	1	27	N
JUN 14.67	JUN 13.67	800	2100	2400	1	1	61429	2	1	62	H
JUN 22.67	JUN 21.67	800	800	1200	1	1	61430	2	1	104	
JUN 23.67	JUN 22.67	800	800	1200	1	1	61431	2	1	56	A
JUN 26.67	JUN 25.67	800	800	1200	1	1	61432	2	1	87	
JUN 27.67	JUN 26.67	800	800	1200	1	1	61433	2	1	69	C
JUN 28.67	JUN 27.67	800	800	1200	1	1	61434	2	1	45	NH
JUN 30.67	JUN 29.67	800	800	1200	1	1	61435	2	1	85	
JUL 1.67	JUN 30.67	800	800	1200	1	1	61436	2	1	64	
JUL 4.67	JUL 3.67	800	800	1200	1	1	61437	2	1	109	C
JUL 6.67	JUL 5.67	800	800	1200	1	1	61438	2	1	1000	E N
JUL 10.67	JUL 9.67	800	800	1200	1	1	61439	2	1	103	E N
JUL 11.67	JUL 10.67	800	800	1200	1	1	61440	2	1	37	NJ
JUL 14.67	JUL 13.67	800	2000	500	1	1	61441	2	1	1000	E N
AUG 2.67	AUG 1.67	800	800	1200	1	1	61442	2	1	99	E N
AUG 3.67	AUG 2.67	930	800	1000	1	1	61443	2	1	77	J
AUG 8.67	AUG 7.67	800	1900	2000	1	1	61444	2	1	100	
AUG 9.67	AUG 8.67	800	1200	1800	1	1	61445	2	1	95	X
AUG 18.67	AUG 17.67	800	800	1830	1	1	61446	2	1	114	
AUG 22.67	AUG 21.67	800	2130	2330	1	1	61447	2	1	85	
AUG 27.67	AUG 26.67	800	800	1200	1	1	61448	2	1	93	
AUG 28.67	AUG 27.67	800	800	1200	1	1	61449	2	1	103	
AUG 31.67	AUG 30.67	800	2400	500	1	1	61451	2	1	101	
SEP 2.67	SEP 1.67	800	100	400	1	1	61452	2	1		
SEP 12.67	SEP 11.67	800	1100	1400	1	1	61454	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AERO/CHEM				#01	PAGE : 5				
REMOVAL DATE	EXPOSURE DATE	VOLUME	CONDUCT.	PH FIELD	PH LAB	TOTAL H+ TO PHB.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 29,87	APR 28,87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 11,87	MAY 10,87	136.0	42.4	UO	UO	*****	*****	*****	*****
MAY 15,87	MAY 14,87	710.0	35.8	4.10	7.37	*****	*****	*****	*****
MAY 18,87	MAY 17,87	186.0	93.1	3.51	3.53	*****	*****	*****	*****
MAY 19,87	MAY 18,87	55.0	93.1	*****	3.67	*****	*****	*****	*****
MAY 20,87	MAY 19,87	49.0	46.0	*****	3.65	*****	*****	*****	*****
MAY 25,87	MAY 24,87	*****	*****	*****	4.25	*****	*****	*****	*****
MAY 26,87	MAY 25,87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 31,87	MAY 30,87	217.0	58.2	*****	3.94	*****	*****	*****	*****
JUN 1,87	MAY 31,87	14.0	49.6	*****	4.08	*****	*****	*****	*****
JUN 3,87	MAY 31,87	512.0	40.9	4.04	4.15	*****	*****	*****	*****
JUN 3,87	JUN 2,87	227.0	41.4	6.55	7.23	*****	*****	*****	*****
JUN 7,87	JUN 6,87	23.0	49.0	*****	5.58	*****	*****	*****	*****
JUN 12,87	JUN 11,87	408.0	29.1	4.11	4.21	*****	*****	*****	*****
JUN 14,87	JUN 13,87	32.0	24.5	*****	6.12	*****	*****	*****	*****
JUN 22,87	JUN 21,87	1209.0	46.0	4.00	3.97	*****	*****	*****	*****
JUN 23,87	JUN 22,87	36.0	100.0	*****	3.57	*****	*****	*****	*****
JUN 26,87	JUN 25,87	203.0	> 100.0	3.52	3.52	*****	*****	*****	*****
JUN 27,87	JUN 26,87	58.0	26.9	*****	4.83	*****	*****	*****	*****
JUN 28,87	JUN 27,87	41.0	22.2	*****	4.71	*****	*****	*****	*****
JUN 30,87	JUN 29,87	77.0	73.9	*****	3.83	*****	*****	*****	*****
JUL 1,87	JUN 30,87	33.0	23.6	*****	4.58	*****	*****	*****	*****
JUL 4,87	JUL 3,87	98.0	72.3	*****	3.66	*****	*****	*****	*****
JUL 6,87	JUL 5,87	*****	*****	*****	*****	*****	*****	*****	*****
JUL 10,87	JUL 9,87	266.0	47.9	*****	4.00	*****	*****	*****	*****
JUL 11,87	JUL 10,87	*****	*****	*****	*****	*****	*****	*****	*****
JUL 14,87	JUL 13,87	445.0	24.9	3.72	4.31	*****	*****	*****	*****
AUG 2,87	AUG 1,87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 3,87	AUG 2,87	2375.0	23.5	3.90	4.39	*****	*****	*****	*****
AUG 8,87	AUG 7,87	79.0	56.0	*****	4.55	*****	*****	*****	*****
AUG 9,87	AUG 8,87	2155.0	42.0	3.88	4.02	*****	*****	*****	*****
AUG 18,87	AUG 17,87	135.0	*****	*****	4.11	*****	*****	*****	*****
AUG 22,87	AUG 21,87	467.0	*****	*****	4.75	*****	*****	*****	*****
AUG 27,87	AUG 26,87	1253.0	33.0	3.60	4.95	*****	*****	*****	*****
AUG 28,87	AUG 27,87	88.0	20.5	3.97	4.11	*****	*****	*****	*****
AUG 29,87	AUG 28,87	72.0	16.0	*****	4.75	*****	*****	*****	*****
AUG 31,87	AUG 30,87	84.0	46.5	*****	4.94	*****	*****	*****	*****
SEP 2,87	SEP 1,87	357.0	8.5	*****	4.15	*****	*****	*****	*****
SEP 12,87	SEP 11,87	583.0	99.0	3.54	4.95	*****	*****	*****	*****
					3.63	*****	*****	*****	*****
						10.35	0.0287	1.00	0.23
							0.0133	10.35	1.15

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEN

FOI

PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 29,87	APR 28,87	*****	*****	*****	*****	*****	*****	*****
MAY 11,87	MAY 10,87	*****	*****	*****	*****	*****	*****	*****
MAY 12,87	MAY 11,87	2.86	0.41	0.610	1.860	0.090	1.930	0.0000
MAY 15,87	MAY 14,87	0.66	0.17	0.115	0.115	0.020	0.910	UG
MAY 16,87	MAY 17,87	1.66	0.41	0.310	0.195	0.055	1.630	0.0468
MAY 19,87	MAY 18,87	0.38	0.33	0.065	0.050	0.050	2.750	0.2138
MAY 20,87	MAY 19,87	1.18	0.24	0.250	0.070	0.050	1.000	0.2239
MAY 23,87	MAY 24,87	*****	*****	*****	*****	*****	*****	D
MAY 25,87	MAY 25,87	*****	*****	*****	*****	*****	*****	0.0562
MAY 26,87	MAY 26,87	*****	*****	*****	*****	*****	*****	*****
MAY 27,87	MAY 28,87	0.60	0.21	0.085	0.050	0.040	0.600	0.1148
MAY 31,87	MAY 30,87	0.82	0.27	0.170	0.120	0.095	0.550	0.0832
JUN 1,87	MAY 31,87	0.58	0.12	0.090	0.100	0.045	0.605	0.0708
JUN 3,87	JUN 2,87	1.70	0.23	0.490	4.270	0.075	1.350	0.0001
JUN 7,87	JUN 6,87	2.80	0.57	0.585	0.165	0.070	2.200	0.0026
JUN 12,87	JUN 11,87	0.22	0.02	0.035	0.025	0.020	0.205	0.0617
JUN 14,87	JUN 13,87	0.98	0.15	0.015	0.085	0.065	1.350	0.0008
JUN 22,87	JUN 21,87	0.10	0.40	*****	0.015	D	0.375	D
JUN 23,87	JUN 22,87	*****	*****	*****	*****	*****	*****	0.1072
JUN 26,87	JUN 25,87	0.48	0.35	0.125	0.050	0.035	3.850	0.2692
JUN 27,87	JUN 26,87	1.24	0.20	0.220	0.100	0.050	0.740	0.3020
JUN 28,87	JUN 27,87	0.92	0.25	0.190	0.040	0.040	0.835	0.0148
JUN 30,87	JUN 29,87	1.10	0.35	0.235	0.065	0.070	0.590	0.0195
JUL 1,87	JUN 30,87	0.42	0.25	0.090	0.140	0.030	0.710	0.1479
JUL 4,87	JUL 3,87	1.22	0.25	0.210	0.140	0.045	0.950	0.0263
JUL 6,87	JUL 5,87	*****	*****	*****	*****	*****	*****	0.1380
JUL 11,87	JUL 10,87	0.66	0.25	0.125	0.170	0.055	0.370	0.1000
JUL 14,87	JUL 13,87	*****	*****	*****	*****	*****	*****	*****
AUG 3,87	AUG 1,87	0.28	0.15	0.050	0.035	0.020	0.330	0.0490
AUG 8,87	AUG 7,87	0.28	0.10	0.040	0.025	0.025	0.500	0.0407
AUG 16,87	AUG 15,87	3.76	0.60	0.805	0.145	0.085	1.400	0.0282
AUG 22,87	AUG 21,87	0.22	0.10	0.035	0.005	0.030	0.355	0.0955
AUG 25,87	AUG 24,87	*****	*****	*****	*****	*****	*****	*****
AUG 26,87	AUG 26,87	0.12	0.11	0.025	0.005	0.020	0.155	0.0776
AUG 28,87	AUG 28,87	1.34	0.16	0.100	0.050	0.055	0.250	0.0178
AUG 29,87	AUG 29,87	0.74	0.13	0.105	0.030	0.025	0.460	0.0115
AUG 31,87	AUG 30,87	0.74	0.19	0.125	0.130	0.030	1.100	0.0708
SEP 2,87	SEP 1,87	0.14	0.05	0.020	0.020	0.015	0.190	0.0112
SEP 12,87	SEP 11,87	0.34	0.32	0.040	0.040	0.030	0.715	0.2344

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM										#01	PAGE : 7	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY	COMMENTS FIELD OFFICE	
03-COMP/04-OTHER												
SEP 13.87	SEP 12.87	800	800	300	500	1	14.6	2	1	99		
SEP 17.87	SEP 16.87	800	800	1430	800	1	4.4	2	1	88		
SEP 18.87	SEP 17.87	800	800	800	800	1	16.8	2	1	105		
SEP 20.87	SEP 19.87	800	800	800	800	1	9.6	2	1	93	Y2	
SEP 21.87	SEP 20.87	800	800	2200	200	1	12.8	2	1	105		
SEP 22.87	SEP 21.87	800	800	800	800	1	7.6	2	1	95		
SEP 23.87	SEP 22.87	800	800	800	800	1	0.2	2	1	88	E N	
SEP 30.87	SEP 29.87	800	800	800	800	1	4.2	2	1	94		
OCT 1.87	SEP 30.87	800	800	800	800	1	61462	2	1	84		
OCT 2.87	OCT 1.87	800	800	800	800	1	1.8	2	1	74		
OCT 3.87	OCT 2.87	800	800	800	800	1	4.6	2	1	85		
OCT 5.87	OCT 4.87	800	800	800	800	1	1.4	2	1	80		
OCT 7.87	OCT 6.87	800	800	800	800	1	8.8	2	1	88		
OCT 8.87	OCT 7.87	800	800	800	800	1	8.8	2	1	88		
OCT 11.87	OCT 10.87	800	800	800	800	1	9.6	2	1	95	H	
OCT 17.87	OCT 16.87	800	800	800	800	1	5.4	2	1	89	HM	
OCT 21.87	OCT 20.87	800	800	800	800	1	2.8	2	1	86		
OCT 22.87	OCT 21.87	800	800	800	800	1	1.8	2	1	55		
OCT 23.87	OCT 22.87	800	800	800	800	1	11.4	2	1	87		
OCT 24.87	OCT 23.87	800	800	800	800	1	1.4	2	1	50		
OCT 25.87	OCT 24.87	800	800	800	800	1	15.0	2	1	91		
OCT 27.87	OCT 26.87	800	800	800	800	1	14.1	2	1	97		
OCT 28.87	OCT 27.87	800	800	800	800	1	3.0	2	1	75		
NOV 1.87	OCT 31.87	800	1500	800	800	1	4.0	2	1	95		
NOV 3.87	NOV 2.87	800	800	800	800	1	0.6	2	1	82		
NOV 4.87	NOV 3.87	800	800	800	800	1	1.6	2	1	92		
NOV 5.87	NOV 4.87	800	800	800	800	1	0.6	2	1	57		
NOV 6.87	NOV 5.87	800	800	800	800	1	4.2	2	1	49	NH	
NOV 8.87	NOV 7.87	800	800	800	800	1	2.8	2	1	83		
NOV 9.87	NOV 8.87	800	800	800	800	1	1.4	2	1	110		
NOV 14.87	NOV 13.87	800	2000	200	1000	1	1.4	2	1	43	N	
NOV 18.87	NOV 17.87	800	800	830	1000	1	2.6	2	1	63	JH	
NOV 19.87	NOV 18.87	800	800	1430	800	1	0.6	2	1	28	NH	
NOV 21.87	NOV 20.87	800	800	800	800	1	2.5	2	1	266	NHCH	
NOV 22.87	NOV 21.87	800	800	800	800	2	8.8	2	1	88	P	
NOV 25.87	NOV 24.87	800	800	800	800	2	11.0	2	1	104	JC	
NOV 26.87	NOV 25.87	800	800	800	1900	1	36.0	2	1	90	JH	
NOV 28.87	NOV 27.87	800	800	800	800	1	1.6	2	1	67		
NOV 29.87	NOV 28.87	1700	800	1500	600	1	8.8	2	1	88	J	
NOV 30.87	NOV 29.87	800	800	800	800	1	2.4	2	1	117	J	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM				#01	PAGE : 8				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH0.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 13,87	SEP 12,87	928.0	66.0	3.71	3.84	*****	0.1760	7.10	0.78
SEP 17,87	SEP 16,87	250.0	37.5	3.98	4.14	*****	0.0959	3.50	0.52
SEP 18,87	SEP 17,87	1132.0	37.5	*****	4.13	*****	0.1000	3.20	0.52
SEP 20,87	SEP 18,87	574.0	18.0	*****	4.41	*****	0.0578	1.45	0.32
SEP 21,87	SEP 20,87	668.0	40.0	*****	4.22	*****	0.1020	3.70	0.86
SEP 22,87	SEP 21,87	479.0	15.0	*****	5.03	*****	0.0309	1.85	0.56
SEP 23,87	SEP 22,87	*****	*****	*****	*****	*****	*****	*****	*****
SEP 30,87	SEP 29,87	255.0	70.0	3.98	3.94	*****	0.1560	8.90	0.93
OCT 1,87	SEP 30,87	162.0	4.0	UG	5.32	*****	0.0195	B 0.80	LG
OCT 2,87	OCT 1,87	86.0	44.0	*****	7.18	*****	0.0175	D 7.90	1.26
OCT 3,87	OCT 2,87	253.0	8.0	UG	5.43	*****	0.0226	D 1.75	0.21
OCT 5,87	OCT 4,87	72.0	33.0	*****	4.46	*****	0.0631	4.05	1.15
OCT 7,87	OCT 6,87	40.0	17.0	*****	5.17	*****	0.0301	4.05	0.51
OCT 8,87	OCT 7,87	179.0	11.0	*****	5.40	*****	0.0305	D 2.90	0.26
OCT 11,87	OCT 10,87	589.0	3.5	*****	5.64	*****	0.0190	0.90	0.20
OCT 17,87	OCT 16,87	311.0	19.0	*****	4.40	*****	0.0630	2.50	0.33
OCT 21,87	OCT 20,87	156.0	D 59.0	*****	3.93	*****	0.1520	D 5.45	1.98
OCT 22,87	OCT 21,87	64.0	D 29.0	*****	4.21	*****	0.0867	D 2.20	1.03
OCT 23,87	OCT 22,87	691.0	17.0	*****	4.49	*****	0.0559	2.00	0.57
OCT 24,87	OCT 23,87	45.0	68.0	*****	4.09	*****	0.1290	9.50	2.39
OCT 25,87	OCT 24,87	881.0	18.0	*****	4.40	*****	0.0642	1.90	0.31
OCT 27,87	OCT 26,87	685.0	28.0	*****	4.20	*****	0.0944	2.00	0.59
OCT 28,87	OCT 27,87	146.0	20.0	4.33	4.38	*****	0.0660	1.85	0.37
NOV 1,87	OCT 31,87	245.0	60.0	3.91	3.91	*****	0.1640	4.80	1.63
NOV 3,87	NOV 2,87	94.0	94.0	*****	3.70	*****	0.2530	UG 11.70	1.31
NOV 4,87	NOV 3,87	35.0	34.0	*****	4.16	*****	0.1000	4.30	0.48
NOV 5,87	NOV 4,87	22.0	12.0	*****	5.07	*****	0.0301	2.00	0.54
NOV 6,87	NOV 5,87	67.0	D 9.0	*****	6.43	*****	0.0164	D 2.10	0.19
NOV 8,87	NOV 7,87	225.0	D 36.0	4.07	4.15	*****	0.1070	D 4.60	0.79
NOV 9,87	NOV 8,87	199.0	D 42.0	3.97	4.05	*****	0.1300	D 4.45	0.80
NOV 14,87	NOV 13,87	306.0	28.0	*****	5.05	*****	0.0378	5.70	0.89
NOV 18,87	NOV 17,87	106.0	22.0	3.95	4.48	*****	0.0632	3.75	0.51
NOV 19,87	NOV 18,87	11.0	7.0	*****	6.61	*****	0.0207	1.30	0.27
NOV 21,87	NOV 20,87	427.0	1.0	UG	6.33	*****	0.0168	0.40	<T
NOV 22,87	NOV 21,87	536.0	2.0	UG	6.12	*****	0.0201	0.60	<T
NOV 25,87	NOV 24,87	735.0	19.0	3.61	4.33	*****	0.0640	1.60	0.33
NOV 26,87	NOV 25,87	2202.0	16.0	D 3.63	4.38	*****	0.0585	1.45	0.21
NOV 28,87	NOV 27,87	69.0	49.0	*****	3.89	*****	0.1470	4.30	0.71
NOV 29,87	NOV 28,87	596.0	12.0	3.68	4.52	*****	0.0475	0.80	0.24
NOV 30,87	NOV 29,87	160.0	42.0	3.54	3.97	*****	0.1350	2.85	0.74

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

PAGE 1 9

STATION NAME : MELBOURNE/DAILY/AEROCHEM

#01

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 13-87	SEP 12-87	0.12	0.14	<T	0.015	<T	0.015	0.690
SEP 17-87	SEP 16-87	0.22	0.16	<T	0.005	<T	0.005	0.0745
SEP 18-87	SEP 17-87	<T	0.00	<T	0.005	<T	0.005	0.0741
SEP 20-87	SEP 19-87	<W	0.02	<W	0.005	<W	0.005	0.0382
SEP 21-87	SEP 20-87	0.38	0.07	0.005	0.050	<T	0.010	0.0382
SEP 22-87	SEP 21-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
SEP 23-87	SEP 22-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
SEP 24-87	SEP 23-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
SEP 25-87	SEP 24-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
SEP 26-87	SEP 25-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
SEP 27-87	SEP 26-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
SEP 28-87	SEP 27-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
SEP 29-87	SEP 28-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
SEP 30-87	SEP 29-87	0.38	0.09	0.075	<T	<W	0.005	0.0093
OCT 1-87	OCT 31-87	0.12	0.40	0.170	0.140	0.085	0.020	0.1148
OCT 2-87	OCT 1-87	<T	0.05	<T	0.015	<T	0.015	0.0025
OCT 3-87	OCT 2-87	0.20	0.15	0.085	0.260	0.350	0.160	0.0001
OCT 4-87	OCT 3-87	0.62	0.15	0.085	0.050	0.025	0.340	0.0037
OCT 5-87	OCT 4-87	1.56	0.20	0.270	0.135	0.095	0.540	0.0347
OCT 6-87	OCT 5-87	0.16	0.25	0.030	0.060	0.035	0.850	0.0068
OCT 7-87	OCT 6-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 8-87	OCT 7-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 9-87	OCT 8-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 10-87	OCT 9-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 11-87	OCT 10-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 12-87	OCT 11-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 13-87	OCT 12-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 14-87	OCT 13-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 15-87	OCT 14-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 16-87	OCT 15-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 17-87	OCT 16-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 18-87	OCT 17-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 19-87	OCT 18-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 20-87	OCT 19-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 21-87	OCT 20-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 22-87	OCT 21-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 23-87	OCT 22-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 24-87	OCT 23-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 25-87	OCT 24-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 26-87	OCT 25-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 27-87	OCT 26-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 28-87	OCT 27-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 29-87	OCT 28-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
OCT 30-87	OCT 29-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 1-87	NOV 30-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 2-87	NOV 1-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 3-87	NOV 2-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 4-87	NOV 3-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 5-87	NOV 4-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 6-87	NOV 5-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 7-87	NOV 6-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 8-87	NOV 7-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 9-87	NOV 8-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 10-87	NOV 9-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 11-87	NOV 10-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 12-87	NOV 11-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 13-87	NOV 12-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 14-87	NOV 13-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 15-87	NOV 14-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 16-87	NOV 15-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 17-87	NOV 16-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 18-87	NOV 17-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 19-87	NOV 18-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 20-87	NOV 19-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 21-87	NOV 20-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 22-87	NOV 21-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 23-87	NOV 22-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 24-87	NOV 23-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 25-87	NOV 24-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 26-87	NOV 25-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 27-87	NOV 26-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 28-87	NOV 27-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 29-87	NOV 28-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040
NOV 30-87	NOV 29-87	0.12	0.29	0.030	0.060	0.035	0.785	0.0040

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01										PAGE : 10		
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SHOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE	
DEC 1,87	NOV 30,87	800 800	100 800	3	0.4	2	61495	2	1	156	N	
DEC 2,87	DEC 1,87	800 800	2200 500	2	2.4	2	61496	2	1	57	H	
DEC 3,87	DEC 2,87	800 800	*****	2	0.8	2	61497	2	1	58		
DEC 4,87	DEC 3,87	800 800	1200 2000	2	5.4	2	61498	2	1	75	J	
DEC 5,87	DEC 4,87	800 800	200 800	2	5.4	2	61499	2	1	72	JC	
DEC 6,87	DEC 5,87	800 800	*****	1	0.8	2	61500	2	1	***	E	
DEC 9,87	DEC 8,87	800 800	500 800	1	4.0	2	61501	2	1	116	N	
DEC 10,87	DEC 9,87	800 800	800 1000	1	4.4	2	61502	2	1	108		
DEC 12,87	DEC 11,87	800 800	1900 200	3	7.6	2	61503	2	1	89		
DEC 15,87	DEC 14,87	800 800	200 800	3	11.8	2	61504	2	1	77		
DEC 16,87	DEC 15,87	800 800	*****	3	5.2	2	61505	2	1	172	N	
DEC 20,87	DEC 19,87	800 1000	1630 500	1	15.8	2	61506	2	1	102		
DEC 25,87	DEC 24,87	800 1100	1200 2200	1	7.8	2	61507	2	1	86		
DEC 30,87	DEC 29,87	800 800	*****	2	0.8	2	61508	2	1	44	N	
DEC 31,87	DEC 30,87	800 800	500 800	3	0.2	2	61509	2	1	***	E	

[illegible]

STATION NAME : MELBOURNE/DAILY/AEROCHEN					#01						PAGE : 12
REMOVAL DATE	EXPOSURE DATE	CALCIUM HG/L	CHLORIDE MG/L	MAGNESIUM HG/L	POTASSIUM MG/L	SODIUM HG/L	AMMONIUM AS N	FREE H+ LAB HG/L			
DEC 1-87	NOV 30-87	IIS *****	0.30	IIS *****	IIS *****	IIS *****	D	0.960	0.0355		
DEC 2-87	DEC 1-87	<T 0.06	0.11	<T 0.010	<W 0.005	<T 0.015		0.425	0.0044		
DEC 3-87	DEC 2-87	IIS *****	0.12	IIS *****	IIS *****	IIS *****		0.215	0.0229		
DEC 4-87	DEC 3-87	0.14	0.24	0.025 <T	0.005 <T	0.050		0.0741	0.0013		
DEC 5-87	DEC 4-87	<T 0.02	<T 0.01	<W 0.005	<W 0.005	<T 0.020		0.445	0.0013		
DEC 6-87	DEC 5-87	IIS *****	IIS *****	IIS *****	IIS *****	IIS *****		0.080	0.0013		
DEC 7-87	DEC 6-87	0.32	1.06	0.080	0.095	0.530		*****	0.1148		
DEC 8-87	DEC 6-87	<T 0.08	0.17	<T 0.015	0.040	0.090		0.315	0.0513		
DEC 10-87	DEC 11-87	0.18	0.15	0.025	0.025	0.025		0.255	0.0692		
DEC 12-87	DEC 14-87	<T 0.06	0.09	0.010	0.025	0.030		0.115	0.0363		
DEC 15-87	DEC 15-87	<T 0.04	<T 0.010	<T 0.010	<T 0.010	0.035		0.140	0.0427		
DEC 16-87	DEC 15-87	<T 0.02	<T 0.010	<T 0.005	<T 0.010	0.035		0.225	0.0692		
DEC 20-87	DEC 19-87	<W 0.02	0.10	<W 0.005	<T 0.010	D 0.035		0.225	0.0692		
DEC 25-87	DEC 24-87	<T 0.02	0.15	<W 0.005	<T 0.010	IIS *****		0.225	0.0575		
DEC 29-87	DEC 29-87	IIS *****	0.13	IIS *****	IIS *****	IIS *****		0.225	0.0001		
DEC 31-87	DEC 30-87	IIS *****	IIS *****	IIS *****	IIS *****	IIS *****		0.225	UG		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHECH #03										PAGE : 1	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
03-COMP/04-OTHER											
JAN 24.87	JAN 14.87	800 800	2400 800	2	1.8	2	63637	2	1	18	N
JAN 34.87	JAN 24.87	800 800	2400 800	2	4.0	2	63639	2	1	34	NH
JAN 74.87	JAN 64.87	800 800	2200 100	3	1.3	2	63640	2	1	108	E
JAN 84.87	JAN 74.87	800 800	1000 2400	2	0.3	2	63641	2	1	20	N
JAN 104.87	JAN 94.87	800 800	2400 2400	2	13.0	2	63642	2	1	85	N
JAN 124.87	JAN 114.87	800 800	MMMM	2	2.0	2	63643	2	1	46	N
JAN 134.87	JAN 124.87	800 800	1200 1200	2	1.1	2	63644	2	1	48	NH
JAN 154.87	JAN 144.87	800 800	1900 2400	1	2.0	2	63645	2	1	145	NH
JAN 174.87	JAN 164.87	800 800	900 1500	2	0.1	2	63646	2	1	31	NH
JAN 184.87	JAN 174.87	800 900	2300 900	2	7.8	2	63647	2	1	82	N
JAN 194.87	JAN 184.87	900 800	900 1300	2	1.3	2	63648	2	1	62	D
JAN 204.87	JAN 194.87	800 800	1300 2000	2	10.9	2	63649	2	1	47	H
JAN 214.87	JAN 204.87	800 800	1600 800	2	1.5	2	63650	2	1	42	NC
JAN 224.87	JAN 214.87	800 800	800 1500	2	0.4	2	63651	2	1	31	N
JAN 234.87	JAN 224.87	800 800	2000 800	2	1.6	1	63652	2	1	48	NH
JAN 244.87	JAN 234.87	800 800	800 2400	2	4.9	2	63653	2	1	45	NH
JAN 254.87	JAN 244.87	800 800	900 1800	2	0.9	2	63654	2	1	22	NH
JAN 264.87	JAN 254.87	800 800	2200 2400	2	0.1	2	63655	2	1	31	NH
JAN 274.87	JAN 264.87	800 800	1600 2400	2	1.5	2	63656	2	1	73	NH
JAN 284.87	JAN 274.87	800 800	2100 800	3	7.2	2	63657	2	1	81	N
JAN 304.87	JAN 294.87	800 900	800 900	3	8.2	2	63658	2	1	71	N
FEB 34.87	FEB 24.87	900 800	2100 2400	2	2.1	2	63659	2	1	58	N
FEB 44.87	FEB 34.87	800 800	1000 1100	2	0.3	2	63660	2	1	57	N
FEB 54.87	FEB 44.87	800 800	800 2400	2	3.1	2	63661	2	1	72	N
FEB 94.87	FEB 84.87	800 800	800 1000	2	4.4	2	63662	2	1	57	N
FEB 134.87	FEB 124.87	800 800	1200 2400	2	1.0	2	63663	2	1	46	NH
MAR 14.87	FEB 28.87	800 1200	MMMM 1200	1	13.6	2	63664	2	1	99	NH
MAR 24.87	MAR 14.87	1200 800	800 1200	3	6.1	2	63665	2	1	95	N
MAR 34.87	MAR 24.87	800 800	800 1700	2	1.9	2	63666	2	1	38	N
MAR 44.87	MAR 34.87	800 800	MMMM 100	2	0.6	2	63667	2	1	54	C
MAR 134.87	MAR 124.87	800 800	300 600	2	0.1	2	63668	2	1	111	C
MAR 254.87	MAR 244.87	800 800	2400 2400	1	1.5	2	63671	2	1	118	J
MAR 264.87	MAR 254.87	800 800	1700 2400	1	4.6	2	63672	2	1	120	N
MAR 274.87	MAR 264.87	800 800	900 1100	1	1.1	2	63673	2	1	120	N
MAR 284.87	MAR 274.87	800 800	MMMM	1	MMMM	2	63674	2	1	117	E
MAR 304.87	MAR 294.87	800 800	2200 800	1	15.2	2	63675	2	1	40	NC
MAR 314.87	MAR 304.87	800 800	800 1000	3	20.2	2	63676	2	1	20	N
APR 14.87	MAR 314.87	800 800	900 2400	2	0.3	2	63677	2	1	48	N
APR 24.87	APR 14.87	800 800	1200 2900	2	7.3	3	63680	2	1	48	N
APR 44.87	APR 34.87	800 800	MMMM	2	1.4	2	63681	2	1	22	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM BOX

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UNHCO/CM	PH FIELD	PH LAB	TOTAL H+ TO PHS.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,87	JAN 1,87	21.0	17.5	*****	4.76	*****	0.0460	1.55	0.59
JAN 3,87	JAN 2,87	69.0	9.6	*****	4.83	*****	0.0357	LG	0.40
JAN 7,87	JAN 6,87	90.0	82.0	*****	3.95	*****	0.1650	4.95	2.13
JAN 8,87	JAN 7,87	4.0	*****	*****	*****	*****	*****	*****	*****
JAN 10,87	JAN 9,87	711.0	21.1	4.45	4.50	*****	0.0558	1.10	0.47
JAN 12,87	JAN 11,87	60.0	36.7	*****	5.15	*****	0.0005	2.40	0.81
JAN 13,87	JAN 12,87	36.0	52.2	*****	5.19	*****	0.0238	1.30	0.24
JAN 15,87	JAN 14,87	187.0	52.2	5.99	3.66	*****	0.1280	2.55	1.20
JAN 17,87	JAN 16,87	2.0	*****	*****	*****	*****	*****	*****	*****
JAN 18,87	JAN 17,87	406.0	20.0	4.39	4.36	*****	0.0517	1.10	0.46
JAN 19,87	JAN 18,87	52.0	13.0	*****	5.10	*****	0.0281	0.80	0.64
JAN 20,87	JAN 19,87	334.0	2.5	5.54	5.79	*****	0.0160	0.10	0.04
JAN 22,87	JAN 21,87	41.0	39.6	*****	4.22	*****	0.0777	1.95	1.51
JAN 23,87	JAN 22,87	8.0	8.3	*****	5.34	*****	0.0208	0.35	0.33
JAN 25,87	JAN 24,87	50.0	21.3	*****	5.70	*****	0.0232	1.70	1.01
JAN 26,87	JAN 25,87	142.0	23.0	6.90	7.17	*****	0.0143	0.55	0.35
JAN 28,87	JAN 27,87	13.0	16.6	UG	7.04	*****	0.0147	0.50	0.18
JAN 29,87	JAN 28,87	2.0	*****	*****	*****	*****	*****	*****	*****
JAN 29,87	JAN 28,87	71.0	25.9	*****	4.49	*****	0.0603	2.50	0.69
JAN 30,87	JAN 29,87	375.0	32.0	*****	4.28	*****	0.0748	1.50	0.69
JAN 31,87	JAN 30,87	376.0	32.0	*****	4.18	*****	0.0918	1.65	0.72
FEB 3,87	FEB 2,87	79.0	17.7	*****	4.75	*****	0.0419	1.45	0.66
FEB 4,87	FEB 3,87	11.0	10.6	*****	5.13	*****	0.0293	0.85	0.35
FEB 5,87	FEB 4,87	144.0	17.9	4.66	4.78	*****	0.0402	1.85	0.53
FEB 9,87	FEB 8,87	162.0	16.6	5.60	6.04	*****	0.0238	2.10	0.86
FEB 13,87	FEB 12,87	30.0	27.6	*****	5.00	*****	0.0393	2.70	1.30
MAR 1,87	MAR 26,87	866.0	27.7	4.22	4.33	*****	0.0753	2.05	0.44
MAR 2,87	MAR 1,87	373.0	21.7	4.37	4.49	*****	0.0578	1.30	0.43
MAR 3,87	MAR 2,87	47.0	7.6	*****	6.43	*****	0.0167	0.95	0.25
MAR 4,87	MAR 3,87	21.0	6.7	*****	7.08	*****	0.0152	0.55	0.08
MAR 13,87	MAR 12,87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 26,87	MAR 24,87	107.0	24.7	5.47	6.27	*****	0.0169	4.55	0.89
MAR 26,87	MAR 25,87	369.0	36.7	4.15	4.33	*****	0.0097	3.40	0.99
MAR 27,87	MAR 26,87	85.0	29.6	*****	4.55	*****	0.0623	3.60	0.86
MAR 28,87	MAR 27,87	4.0	*****	*****	*****	*****	*****	*****	*****
MAR 30,87	MAR 29,87	1161.0	22.1	4.31	4.53	*****	0.0603	2.10	0.34
MAR 31,87	MAR 30,87	530.0	13.6	4.72	4.97	*****	0.0260	1.00	0.12
APR 1,87	MAR 31,87	4.0	*****	*****	*****	*****	*****	*****	*****
APR 2,87	APR 1,87	226.0	27.2	4.26	*****	*****	0.0699	1.80	0.69
APR 4,87	APR 3,87	20.0	20.7	*****	4.61	*****	0.0481	2.00	0.45

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2-87	JAN 1-87	115	0.28	115	115	115	0.280	0.0166
JAN 3-87	JAN 2-87	0.22	0.08	<T	0.005	0.030	0.100	0.0148
JAN 7-87	JAN 6-87	0.66	0.43	0.105	0.060	0.155	1.700	0.1122
JAN 8-87	JAN 7-87	*****	*****	*****	*****	*****	*****	*****
JAN 10-87	JAN 9-87	0.12	0.20	0.025	0.025	0.050	0.190	0.0501
JAN 12-87	JAN 11-87	0.14	0.27	<T	0.050	0.085	0.730	0.0708
JAN 13-87	JAN 12-87	0.24	0.10	0.040	0.030	0.065	0.380	0.0055
JAN 15-87	JAN 14-87	0.18	0.25	<T	0.030	0.045	0.520	0.1380
JAN 17-87	JAN 16-87	*****	*****	*****	*****	*****	*****	*****
JAN 18-87	JAN 17-87	0.26	0.25	0.075	<T	0.090	0.065	0.0437
JAN 19-87	JAN 18-87	0.44	0.17	0.080	<T	0.725	0.080	0.0079
JAN 20-87	JAN 19-87	0.04	0.01	<T	0.010	0.725	0.080	0.0079
JAN 21-87	JAN 20-87	<T	<T	<T	<T	0.010	0.045	0.0016
JAN 22-87	JAN 21-87	1.02	1.04	0.240	0.050	0.540	0.530	0.0603
JAN 23-87	JAN 22-87	0.46	0.40	0.085	<T	0.120	0.020	0.0046
JAN 24-87	JAN 23-87	1.40	0.91	0.230	0.050	0.460	0.450	0.0020
JAN 24-87	JAN 24-87	2.54	0.93	UO	0.060	0.255	0.030	0.0001
JAN 25-87	JAN 24-87	2.24	0.59	0.560	0.040	0.220	0.015	0.0001
JAN 26-87	JAN 25-87	*****	*****	*****	*****	*****	*****	*****
JAN 28-87	JAN 27-87	0.32	0.29	0.055	0.040	0.135	0.015	0.0324
JAN 29-87	JAN 28-87	0.30	0.28	0.065	0.105	0.105	0.120	0.0525
JAN 31-87	JAN 30-87	<T	0.16	<T	0.010	0.030	0.290	0.0661
FEB 3-87	FEB 2-87	0.06	0.22	0.045	<T	0.045	0.495	0.0178
FEB 4-87	FEB 3-87	0.22	0.19	0.040	0.015	0.110	0.275	0.0074
FEB 5-87	FEB 4-87	0.14	0.19	0.040	0.015	0.065	0.790	0.0166
FEB 9-87	FEB 8-87	0.56	0.36	0.135	0.035	0.145	1.150	0.0009
FEB 13-87	FEB 12-87	1.30	1.25	0.295	0.040	0.540	0.950	0.0100
MAR 1-87	FEB 28-87	<T	0.09	<T	0.015	0.030	0.205	0.0468
MAR 2-87	MAR 1-87	0.02	0.27	<T	0.055	0.135	0.260	0.0324
MAR 3-87	MAR 2-87	<T	0.09	<T	0.020	0.065	0.390	0.0004
MAR 4-87	MAR 3-87	0.34	0.34	0.070	<T	0.095	0.170	0.0001
MAR 5-87	MAR 4-87	0.92	0.12	0.260	0.025	0.095	0.170	0.0001
MAR 13-87	MAR 12-87	*****	*****	*****	*****	*****	*****	*****
MAR 25-87	MAR 24-87	1.96	0.49	0.560	0.040	0.205	0.425	0.0002
MAR 26-87	MAR 25-87	0.62	0.24	0.110	0.040	0.065	0.780	0.0589
MAR 27-87	MAR 26-87	0.42	0.38	0.045	0.040	0.045	1.300	0.0282
MAR 28-87	MAR 27-87	*****	*****	*****	*****	*****	*****	*****
MAR 30-87	MAR 29-87	0.14	0.09	0.030	0.025	0.025	0.310	0.0372
MAR 31-87	MAR 30-87	0.08	0.07	<T	0.035	0.045	0.105	0.0107
APR 1-87	MAR 31-87	*****	*****	*****	*****	*****	*****	*****
APR 2-87	APR 1-87	0.16	0.16	0.030	<T	0.055	0.385	0.0468
APR 4-87	APR 3-87	0.48	0.25	0.070	0.030	0.075	115	0.0245

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEN #03

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY	COMMENTS FIELD OFFICE
				01-RAIN	01-STO.	02-NIPHER		02-APIOS	01-HOE		
				02-SNOW				03-SPECIAL	03-AES	(%)	
				03-COMP/04-OTHER							
APR 5+87	APR 4+87	800 800	1100 800	3	1.9	2	63682	2	1	94	J
APR 6+87	APR 5+87	800 800	800 2400	1	5.7	2	63683	2	1	120	NH
APR 7+87	APR 6+87	800 800	1700 2300	1	0.1	2	63684	2	1	46	N
APR 12+87	APR 11+87	800 800	2400 800	1	1.6	2	63685	2	1	115	E
APR 13+87	APR 12+87	800 800	800 2400	1	14.3	1	63686	2	1	103	Q
APR 15+87	APR 14+87	800 800	1500 2400	1	1.4	1	63687	2	1	134	N
APR 16+87	APR 15+87	800 800	*****	1	0.1	1	63688	2	1	46	E
APR 23+87	APR 22+87	800 730	2400 730	1	1.4	1	63689	2	1	74	CDQ
APR 24+87	APR 23+87	730 800	730 1200	1	1.2	1	63690	2	1	75	D
APR 26+87	APR 24+87	800 800	1500 300	1	7.0	1	63691	2	1	13	C
MAY 11+87	MAY 10+87	800 800	2200 300	1	2.4	1	63692	2	1	*****	CDQ
MAY 12+87	MAY 11+87	800 800	*****	1	0.2	1	63693	2	1	*****	C
MAY 15+87	MAY 14+87	800 800	1700 2100	1	23.2	1	63694	2	1	94	NV4
MAY 18+87	MAY 17+87	800 800	*****	1	8.0	1	63695	2	1	98	ABCCQJ
MAY 19+87	MAY 18+87	800 800	800 1200	1	2.2	1	63696	2	1	82	EJ
MAY 20+87	MAY 19+87	800 800	2400 300	1	2.2	1	63697	2	1	95	
MAY 21+87	MAY 20+87	800 800	900 1000	1	0.7	1	63698	2	1	35	N
MAY 22+87	MAY 21+87	800 800	2400 200	1	0.6	1	63699	2	1	62	
MAY 27+87	MAY 26+87	800 800	800 1000	1	3.0	1	63700	2	1	84	
MAY 31+87	MAY 30+87	800 800	2200 100	1	9.0	1	63701	2	1	98	
JUN 2+87	JUN 1+87	800 800	1400 1600	1	6.8	1	63702	2	1	93	NH
JUN 3+87	JUN 2+87	800 800	*****	1	0.6	1	63703	2	1	36	
JUN 6+87	JUN 5+87	800 800	900 1000	1	5.8	1	63704	2	1	90	
JUN 9+87	JUN 8+87	800 800	830 1200	1	1.2	1	63705	2	1	99	
JUN 12+87	JUN 11+87	800 800	2000 700	1	10.2	1	63706	2	1	102	
JUN 22+87	JUN 21+87	800 700	2400 630	1	16.9	1	63707	2	1	86	NH
JUN 23+87	JUN 22+87	700 800	800 1700	1	5.1	1	63710	2	1	75	NH
JUN 26+87	JUN 25+87	700 800	200 300	1	1.2	1	63711	2	1	46	NH
JUN 28+87	JUN 27+87	800 800	200 300	1	1.0	1	63712	2	1	48	
JUL 4+87	JUL 3+87	800 800	1400 1500	1	14.2	1	63713	2	1	90	
JUL 7+87	JUL 6+87	800 800	1900 2000	1	5.1	1	63714	2	1	99	
JUL 9+87	JUL 8+87	800 800	2200 2400	1	38.4	1	63715	2	1	68	
JUL 11+87	JUL 10+87	800 800	1500 1700	1	15.9	1	63716	2	1	98	
JUL 14+87	JUL 13+87	800 800	1400 1500	1	13.0	1	63718	2	1	97	
JUL 20+87	JUL 19+87	800 800	200 100	1	17.2	1	63719	2	1	89	
JUL 21+87	JUL 20+87	800 800	2200 2300	1	13.2	1	63720	2	1	99	
JUL 25+87	JUL 24+87	800 800	2200 2300	1	2.2	1	63721	2	1	97	
AUG 3+87	AUG 2+87	700 800	1900 2400	1	22.7	1	63722	2	1	102	
AUG 6+87	AUG 5+87	700 800	700 1600	1	31.2	1	63726	2	1	82	
AUG 8+87	AUG 7+87	600 800	1600 1700	1	4.1	1	63727	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03										PAGE : 6	
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L			
APR 5-87	APR 4-87	D 0.98	0.40	D 0.215	0.035	0.245	0.460	D 0.0003			
APR 6-87	APR 5-87	0.30	0.32	0.065	0.030	0.210	0.645	0.0288			
APR 7-87	APR 6-87	0.30	0.39	0.800	0.080	0.080	0.700	0.0000			
APR 12-87	APR 11-87	B 3.94	0.16	0.130	0.075	<T	0.025	0.0141			
APR 13-87	APR 12-87	D 0.96	0.56	0.445	0.145	0.220	0.850	0.1122			
APR 15-87	APR 14-87	1.92	0.32	0.130	0.035	0.035	0.850	0.1122			
APR 16-87	APR 15-87	0.96	0.32	0.130	0.035	0.035	0.850	0.1122			
APR 23-87	APR 22-87	U 7.52	1.65	U 1.590	0.310	0.335	2.450	0.3162			
APR 24-87	APR 23-87	1.96	1.22	0.290	0.220	0.390	2.750	0.3236			
APR 26-87	APR 24-87	UG 4.14	0.52	UG 0.930	0.215	0.110	1.300	0.0000			
MAY 11-87	MAY 10-87	0.96	0.32	0.130	0.035	0.035	0.850	0.1122			
MAY 12-87	MAY 11-87	1.12	0.21	0.190	0.035	<T	0.890	0.0324			
MAY 15-87	MAY 14-87	0.48	0.13	0.090	0.030	<T	0.820	0.0891			
MAY 18-87	MAY 17-87	0.08	0.19	0.010	0.070	0.095	0.620	0.0617			
MAY 20-87	MAY 19-87	0.52	0.29	0.125	0.030	0.035	0.630	0.1288			
MAY 21-87	MAY 20-87	0.26	0.26	0.040	0.035	0.060	0.900	0.2455			
MAY 22-87	MAY 21-87	1.44	0.46	D 0.275	0.110	0.115	1.700	0.1349			
MAY 27-87	MAY 26-87	D 2.32	0.36	D 0.520	0.075	0.065	1.250	0.1230			
MAY 31-87	MAY 30-87	0.58	0.07	0.105	<T	0.050	0.255	0.0269			
JUN 2-87	JUN 1-87	0.86	0.24	0.140	0.070	0.110	1.400	0.0437			
JUN 3-87	JUN 2-87	0.74	0.23	0.105	0.085	0.090	1.150	0.0029			
JUN 8-87	JUN 7-87	1.66	0.16	0.310	0.080	0.035	1.100	0.0002			
JUN 9-87	JUN 8-87	1.62	0.17	0.245	0.120	0.070	1.550	0.0002			
JUN 12-87	JUN 11-87	0.88	0.14	0.140	0.040	0.035	0.410	0.1072			
JUN 22-87	JUN 21-87	0.48	0.20	0.130	0.030	0.040	0.460	0.0676			
JUN 23-87	JUN 22-87	0.08	0.10	0.010	0.020	0.005	0.640	0.0891			
JUN 26-87	JUN 25-87	1.72	0.60	<T 0.405	0.485	0.050	1.200	0.3890			
JUN 28-87	JUN 27-87	D 0.42	0.15	D 0.125	0.050	0.045	0.175	0.0002			
JUL 4-87	JUL 3-87	0.66	0.05	0.110	0.035	0.010	0.545	0.0447			
JUL 7-87	JUL 6-87	0.76	0.25	0.140	0.040	0.050	0.515	0.1148			
JUL 8-87	JUL 7-87	0.22	0.10	0.045	<T 0.020	0.015	0.315	0.0447			
JUL 9-87	JUL 8-87	0.34	0.15	0.075	<T 0.015	0.030	0.595	0.1148			
JUL 11-87	JUL 10-87	0.22	0.10	0.035	<T 0.020	0.020	0.350	0.0347			
JUL 14-87	JUL 13-87	0.18	0.05	0.040	<T 0.020	0.015	0.240	0.0282			
JUL 20-87	JUL 19-87	0.88	0.15	0.200	0.055	0.065	0.610	0.0309			
JUL 21-87	JUL 20-87	0.74	0.20	0.135	0.045	0.085	0.490	0.0513			
JUL 25-87	JUL 24-87	0.70	0.39	0.130	<T 0.020	0.025	0.690	0.1349			
AUG 3-87	AUG 2-87	0.56	0.15	0.085	<T 0.010	0.030	0.605	0.0166			
AUG 8-87	AUG 7-87	3.58	0.38	0.680	0.105	0.050	1.050	0.0001			

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
AUG 9,87	AUG 8,87	800 900	200 900	1	23.2	1	63728	2	1	97	
AUG 10,87	AUG 9,87	900 800	900 1800	1	3.1	1	63731	2	1	68	
AUG 18,87	AUG 16,87	800 800	1830 1430	1	1.0	1	63732	2	1	32	Q
AUG 19,87	AUG 18,87	800 800	2000 2100	1	1.2	1	63733	2	1	81	
AUG 22,87	AUG 21,87	800 800	100 300	1	4.3	1	63734	2	1	77	JH
AUG 27,87	AUG 26,87	800 800	1600 2400	1	12.0	1	63735	2	1	93	
AUG 29,87	AUG 28,87	800 800	1300 2100	1	2.7	1	63736	2	1	82	J
AUG 31,87	AUG 30,87	800 1800	1600 100	1	1.0	1	63737	2	1	45	N
SEP 1,87	AUG 31,87	1800 800	2100 2200	1	1.1	1	63738	2	1	70	N
SEP 2,87	SEP 1,87	800 800	**** 500	1	4.4	1	63739	2	1	86	HM
SEP 12,87	SEP 11,87	800 800	1200 1600	1	23.8	1	63740	2	1	97	
SEP 13,87	SEP 12,87	800 800	1400 1600	1	3.0	1	63743	2	1	91	
SEP 17,87	SEP 16,87	800 800	1800 2300	1	3.9	1	63744	2	1	110	
SEP 18,87	SEP 17,87	800 800	1000 800	1	7.0	1	63745	2	1	96	
SEP 19,87	SEP 18,87	800 800	800 800	1	2.0	1	63746	2	1	79	
SEP 20,87	SEP 19,87	800 800	800 1500	1	0.8	1	63747	2	1	50	
SEP 21,87	SEP 20,87	800 800	200 500	1	5.2	1	63748	2	1	91	
SEP 22,87	SEP 21,87	800 800	1700 1900	1	6.1	1	63749	2	1	96	J
SEP 28,87	SEP 27,87	800 800	1400 1600	1	12.7	1	63750	2	1	69	
SEP 30,87	SEP 29,87	800 800	1400 1700	1	1.4	1	63751	2	1	97	
OCT 1,87	SEP 30,87	800 800	1400 1700	1	1.4	1	63752	2	1	60	A
OCT 2,87	OCT 1,87	800 800	100 300	1	2.8	1	63753	2	1	83	
OCT 3,87	OCT 2,87	800 800	1400 2100	1	7.4	1	63754	2	1	92	H
OCT 6,87	OCT 5,87	800 800	2300 100	1	0.8	1	63755	2	1	80	H
OCT 7,87	OCT 6,87	800 800	2000 2200	1	1.6	1	63756	2	1	51	N
OCT 8,87	OCT 7,87	800 800	900 2400	1	7.4	1	63757	2	1	125	NHCHN
OCT 10,87	OCT 9,87	800 800	****	1	0.6	1	63758	2	1	81	N
OCT 11,87	OCT 10,87	800 800	****	1	****	1	63759	2	1	****	N
OCT 18,87	OCT 17,87	800 1000	1000 1400	1	6.3	1	63760	2	1	91	H
OCT 21,87	OCT 20,87	800 800	1000 1400	1	3.2	1	63761	2	1	81	C
OCT 22,87	OCT 21,87	800 800	900 1400	3	4.4	1	63762	2	1	117	
OCT 23,87	OCT 22,87	800 800	1500 100	3	14.0	1	63763	2	1	83	GE
OCT 25,87	OCT 24,87	800 800	900 100	1	21.2	1	63766	2	1	95	GE
OCT 27,87	OCT 26,87	800 800	2400 800	1	7.2	1	63767	2	1	124	
OCT 28,87	OCT 27,87	800 800	800 1400	1	11.0	1	63768	2	1	90	N
OCT 29,87	OCT 28,87	800 800	****	3	4.0	1	63769	2	1	89	HC
OCT 30,87	OCT 29,87	800 800	****	3	0.1	1	63770	2	1	78	A
NOV 2,87	NOV 1,87	800 800	****	1	1.0	1	63771	2	1	59	XN
NOV 3,87	NOV 2,87	800 800	200 700	1	1.2	1	63772	2	1	74	A
NOV 5,87	NOV 4,87	800 800	****	1	1.6	1	63773	2	1	65	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME HL	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 9,87	AUG 8,87	1455.0	24.0	4.06	4.25	*****	0.0779	2.95	0.24
AUG 10,87	AUG 9,87	137.0	45.0	3.82	3.99	*****	0.1360	5.70	0.47
AUG 18,87	AUG 16,87	61.0	37.0	*****	*****	*****	0.0207	9.45	1.41
AUG 19,87	AUG 18,87	23.0	9.5	*****	UG	*****	0.0165	1.35	0.40
AUG 21,87	AUG 21,87	214.0	33.5	3.82	4.30	*****	0.0803	4.80	0.72
AUG 22,87	AUG 21,87	720.0	4.27	6.02	4.59	*****	0.0476	1.90	0.30
AUG 27,87	AUG 26,87	720.0	10.5	*****	6.73	*****	0.0172	7.55	1.15
AUG 29,87	AUG 28,87	29.0	45.5	*****	4.38	*****	0.0772	1.75	0.13
AUG 31,87	AUG 30,87	50.0	ITS *****	*****	6.41	*****	0.0163	1.75	0.13
SEP 1,87	AUG 31,87	50.0	LG	*****	6.26	*****	0.0166	0.90	LG
SEP 2,87	SEP 1,87	245.0	5.0	*****	3.75	*****	0.2070	8.35	0.72
SEP 12,87	SEP 11,87	1492.0	76.5	3.66	3.75	*****	0.2150	8.75	1.06
SEP 13,87	SEP 12,87	175.0	82.0	3.65	3.73	*****	0.1160	7.40	1.27
SEP 17,87	SEP 16,87	275.0	53.5	3.95	4.11	*****	0.1380	4.55	0.83
SEP 18,87	SEP 17,87	434.0	49.0	3.85	4.00	*****	0.0619	2.25	0.47
SEP 19,87	SEP 18,87	102.0	22.0	4.16	4.43	*****	0.1220	4.10	0.74
SEP 20,87	SEP 19,87	305.0	26.0	*****	4.06	*****	0.0796	2.95	0.68
SEP 21,87	SEP 20,87	377.0	29.0	4.13	4.31	*****	0.0197	2.10	0.54
SEP 22,87	SEP 21,87	302.0	13.0	5.55	6.20	*****	0.1380	7.15	0.84
SEP 28,87	SEP 27,87	793.0	61.0	4.00	3.99	*****	0.0736	5.60	0.48
SEP 30,87	SEP 29,87	54.0	37.0	4.28	4.35	*****	0.0177	1.15	LG
OCT 1,87	SEP 30,87	149.0	10.0	*****	6.99	*****	0.0210	4.80	0.82
OCT 2,87	OCT 1,87	439.0	LG	6.39	6.81	*****	0.0172	0.91	LG
OCT 3,87	OCT 2,87	93.0	17.5	5.73	6.25	*****	0.0269	2.80	0.76
OCT 6,87	OCT 5,87	20.0	20.0	*****	5.19	*****	0.0208	3.50	0.52
OCT 7,87	OCT 6,87	594.0	LG	4.75	4.95	*****	0.0268	0.85	0.18
OCT 8,87	OCT 7,87	16.0	16.5	*****	4.79	*****	0.0214	2.85	0.54
OCT 11,87	OCT 10,87	73.0	6.0	*****	5.36	*****	0.0233	0.55	0.32
OCT 18,87	OCT 17,87	371.0	22.0	4.14	4.43	*****	0.0600	3.10	0.39
OCT 21,87	OCT 20,87	168.0	> 100.0	3.64	3.59	*****	0.2870	8.75	3.70
OCT 22,87	OCT 21,87	331.0	13.5	4.63	4.65	*****	0.0408	1.15	0.35
OCT 23,87	OCT 22,87	746.0	*****	4.68	*****	*****	*****	*****	*****
OCT 25,87	OCT 24,87	1293.0	4.52	*****	*****	*****	*****	*****	*****
OCT 27,87	OCT 26,87	574.0	24.0	*****	4.31	*****	0.0840	2.15	0.51
OCT 28,87	OCT 27,87	640.0	14.0	*****	4.60	*****	0.0520	1.70	0.32
OCT 29,87	OCT 28,87	230.0	LG	*****	6.09	*****	0.0172	1.20	0.32
OCT 30,87	OCT 29,87	5.0	*****	*****	*****	*****	*****	*****	*****
NOV 2,87	NOV 1,87	25.0	*****	*****	*****	*****	0.1690	7.60	0.99
NOV 3,87	NOV 2,87	57.0	*****	*****	6.02	*****	0.0251	2.50	0.37
NOV 5,87	NOV 4,87	67.0	11.0	*****	5.31	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

PAGE : 9

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 9-87	AUG 8-87	0.12	0.04	<T	<T	<T	0.195	0.0562
AUG 10-87	AUG 9-87	0.22	0.11	0.060	0.020	0.045	0.350	0.1023
AUG 16-87	AUG 16-87	2.96	0.42	0.600	0.200	UG	0.775	0.0004
AUG 19-87	AUG 18-87	0.72	0.07	0.120	0.040	0.045	0.430	UG
AUG 22-87	AUG 21-87	1.04	0.18	0.145	D	0.090	0.045	0.0002
AUG 27-87	AUG 26-87	0.22	D	0.08	<T	<T	0.185	0.0257
AUG 29-87	AUG 28-87	0.58	0.12	0.080	<T	0.025	0.565	0.0002
AUG 31-87	AUG 30-87	IIS	0.41	IIS	IIS	IIS	1.250	0.0417
SEP 1-87	AUG 31-87	IIS	0.12	IIS	IIS	IIS	0.355	0.0004
SEP 2-87	SEP 1-87	IIS	0.50	<T	0.030	0.030	0.295	0.0005
SEP 12-87	SEP 11-87	0.16	0.18	0.020	0.030	0.030	0.600	0.1778
SEP 13-87	SEP 12-87	0.30	D	0.035	0.055	<T	0.805	0.1862
SEP 17-87	SEP 16-87	1.06	D	0.22	D	0.045	1.450	0.0776
SEP 18-87	SEP 17-87	0.26	0.16	0.030	0.045	0.040	0.450	0.1000
SEP 19-87	SEP 18-87	0.16	0.10	<T	0.055	0.080	0.360	0.0372
SEP 20-87	SEP 19-87	IIS	0.11	IIS	IIS	IIS	0.360	0.0871
SEP 21-87	SEP 20-87	0.30	0.13	0.025	0.055	0.030	0.620	0.0490
SEP 22-87	SEP 21-87	0.38	0.38	0.055	D	0.045	0.950	0.0006
SEP 28-87	SEP 27-87	0.92	0.13	0.125	0.055	<T	0.735	0.1023
SEP 30-87	SEP 29-87	0.50	0.12	0.070	0.035	<T	1.150	0.0447
OCT 1-87	SEP 30-87	D	D	0.15	B	0.620	0.450	UG
OCT 2-87	OCT 1-87	1.86	0.13	0.245	0.150	0.130	0.950	UG
OCT 3-87	OCT 2-87	0.22	0.16	0.045	0.025	0.025	0.225	0.0006
OCT 6-87	OCT 5-87	1.26	0.16	0.200	0.115	0.095	0.465	0.0065
OCT 7-87	OCT 6-87	1.30	0.18	0.235	0.115	UG	IIS	UG
OCT 8-87	OCT 7-87	0.18	0.03	0.025	<T	<T	0.225	0.0112
OCT 10-87	OCT 9-87	1.20	0.23	0.190	0.120	0.140	IIS	0.0016
OCT 11-87	OCT 10-87	0.28	0.19	0.045	<T	0.075	0.245	0.0044
OCT 18-87	OCT 17-87	0.50	0.09	0.080	0.045	0.050	0.495	0.0372
OCT 21-87	OCT 20-87	1.18	0.63	0.195	D	0.070	2.100	0.2570
OCT 22-87	OCT 21-87	<T	0.10	0.025	<T	0.010	D	0.0224
OCT 23-87	OCT 22-87	0.08	0.08	0.025	IIS	IIS	IIS	0.0006
OCT 25-87	OCT 24-87	0.08	0.08	0.025	IIS	IIS	IIS	0.0006
OCT 27-87	OCT 26-87	<T	0.16	<T	IIS	0.025	IIS	0.0002
OCT 28-87	OCT 27-87	0.10	0.16	<T	0.015	0.025	0.230	0.0490
OCT 29-87	OCT 28-87	<T	0.13	<T	0.030	0.050	0.045	0.0251
OCT 29-87	OCT 28-87	0.22	0.26	0.005	0.090	0.145	0.365	0.0008
OCT 30-87	OCT 29-87	0.08	0.08	0.025	IIS	IIS	IIS	0.0006
NOV 2-87	NOV 1-87	0.08	0.08	0.025	IIS	IIS	IIS	0.0006
NOV 3-87	NOV 2-87	0.88	0.78	0.130	0.180	0.495	0.735	0.0955
NOV 5-87	NOV 4-87	0.40	0.34	0.075	0.145	D	0.570	0.0049

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEN #03

PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/DA-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
NOV 6.87	NOV 5.87	800	800	2	3.0	1	63774	2	1	78	HCM
NOV 7.87	NOV 6.87	800	800	2	1.2	1	63775	2	1	89	C
NOV 8.87	NOV 7.87	800	800	2	7.4	1	63776	2	1	116	N
NOV 9.87	NOV 8.87	800	800	1	5.8	1	63777	2	1	126	N
NOV 18.87	NOV 17.87	800	800	1	5.4	2	63778	2	1	77	J
NOV 19.87	NOV 18.87	800	800	1	0.8	2	63779	2	1	64	
NOV 20.87	NOV 19.87	800	800	3	***	2	63780	2	1	***	A
NOV 21.87	NOV 20.87	800	800	2	3.2	2	63781	2	1	223	EG
NOV 24.87	NOV 23.87	800	800	1	0.3	2	63782	2	1	87	N
NOV 25.87	NOV 24.87	800	800	3	8.9	2	63797	2	1	97	JHM
NOV 26.87	NOV 25.87	800	800	3	38.5	2	63798	2	1	92	J
NOV 29.87	NOV 28.87	800	800	1	8.8	2	63801	2	1	98	
NOV 30.87	NOV 29.87	800	800	3	1.2	2	63802	2	1	60	
DEC 1.87	NOV 30.87	800	800	3	2.2	2	63803	2	1	40	NHCH
DEC 2.87	DEC 1.87	800	800	2	1.5	2	63804	2	1	68	H
DEC 3.87	DEC 2.87	800	800	2	1.7	2	63805	2	1	43	N
DEC 4.87	DEC 3.87	800	800	2	3.4	2	63806	2	1	148	N
DEC 8.87	DEC 7.87	800	800	3	1.0	2	63807	2	1	105	J
DEC 9.87	DEC 8.87	800	800	1	4.0	2	63808	2	1	116	JHM
DEC 10.87	DEC 9.87	800	800	1	5.4	2	63809	2	1	102	
DEC 12.87	DEC 11.87	800	800	3	4.2	2	63810	2	1	75	JH
DEC 13.87	DEC 12.87	800	800	3	5.4	2	63812	2	1	57	N
DEC 15.87	DEC 14.87	800	800	3	36.0	2	63813	2	1	45	N
DEC 16.87	DEC 15.87	730	800	3	0.1	2	63816	2	1	***	E
DEC 17.87	DEC 16.87	800	800	3	18.5	2	63817	2	1	89	N
DEC 20.87	DEC 19.87	800	800	3	2.7	2	63818	2	1	138	N
DEC 21.87	DEC 20.87	1000	800	2	1.5	2	63819	2	1	46	N
DEC 23.87	DEC 22.87	800	800	2	9.5	2	63820	2	1	95	
DEC 25.87	DEC 24.87	800	800	1	0.4	2	63821	2	1	***	EF
DEC 29.87	DEC 28.87	800	800	2							

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROSOL #03										PAGE : 12	
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L			
NOV 6,87	NOV 5,87	0.16	0.07	0.045	0.030	0.025	0.225	0.0004			
NOV 7,87	NOV 6,87	D	0.10	0.190	0.075	0.095	0.145	UG			
NOV 8,87	NOV 7,87	0.44	0.09	0.040	0.025	<T	0.175	0.0001			
NOV 9,87	NOV 8,87	0.24	0.16	0.030	0.050	0.035	0.340	0.0537			
NOV 18,87	NOV 17,87	0.60	0.28	0.090	0.045	0.075	0.735	D			
NOV 19,87	NOV 18,87	0.26	0.13	0.050	0.035	0.035	0.650	0.0087			
NOV 20,87	NOV 19,87	1.48	0.29	0.275	0.070	0.045	0.655	UG			
NOV 21,87	NOV 20,87	*****	*****	*****	*****	*****	*****	*****			
NOV 24,87	NOV 23,87	0.86	0.38	0.145	0.060	0.225	0.365	0.0275			
NOV 25,87	NOV 24,87	<T	0.08	<T	0.005	0.030	0.110	0.0263			
NOV 26,87	NOV 25,87	<T	0.02	<M	0.005	<T	0.045	0.0295			
NOV 29,87	NOV 28,87	0.10	0.14	0.025	<T	0.080	0.085	0.0229			
NOV 30,87	NOV 29,87	0.30	0.26	0.035	0.060	0.150	0.365	0.1318			
DEC 1,87	NOV 30,87	0.22	0.45	0.035	<T	0.020	0.585	0.0562			
DEC 2,87	DEC 1,87	0.12	0.01	<T	0.010	0.030	<T	0.0028			
DEC 3,87	DEC 2,87	0.32	0.23	0.055	<T	0.130	0.250	0.0034			
DEC 4,87	DEC 3,87	0.24	0.25	0.040	<T	0.055	0.500	0.0776			
DEC 8,87	DEC 7,87	INR	INR	INR	INR	INR	INR	INR			
DEC 9,87	DEC 8,87	0.32	0.60	0.055	<T	0.295	0.235	0.0977			
DEC 10,87	DEC 9,87	0.12	0.08	<T	<T	0.060	0.320	0.0427			
DEC 12,87	DEC 11,87	0.14	0.01	<T	0.015	<T	0.225	0.0741			
DEC 13,87	DEC 12,87	0.36	0.27	0.045	0.090	0.040	0.710	0.0072			
DEC 15,87	DEC 14,87	0.60	0.01	0.190	<T	<T	0.055	0.0001			
DEC 16,87	DEC 15,87	0.32	<T	0.050	0.015	<T	0.095	0.0257			
DEC 17,87	DEC 16,87	*****	*****	*****	*****	*****	*****	*****			
DEC 20,87	DEC 19,87	<T	0.01	<T	<T	<T	0.255	0.0676			
DEC 21,87	DEC 20,87	!IS	0.18	!IS	!IS	!IS	0.625	!IS			
DEC 23,87	DEC 22,87	*****	0.56	!IS	*****	!IS	0.300	0.0617			
DEC 25,87	DEC 24,87	0.36	0.08	0.030	<T	0.080	0.295	0.0407			
DEC 29,87	DEC 28,87	*****	*****	*****	*****	*****	*****	*****			

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04										PAGE : 1	
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-SID.		02-APIOS	03-AES		
				02-SHOW		02-NIPHER					
				03-COMP/04-OTHER							
JAN 2.87	JAN 1.87	500 500	500 500	2	1.6	2	62546	2	1	1	E N
JAN 3.87	JAN 2.87	500 500	500 500	2	4.0	2	62548	2	1	3	F
JAN 7.87	JAN 6.87	500 500	500 500	1	1.2	2	62550	2	1	84	C
JAN 9.87	JAN 8.87	500 500	500 500	2	0.1	2	62552	2	1	93	
JAN 10.87	JAN 9.87	500 500	500 500	2	6.7	2	62554	2	1	8	F
JAN 11.87	JAN 10.87	850 500	1100 1700	2	13.0	2	62556	2	1	16	F
JAN 17.87	JAN 16.87	500 800	700 700	2	0.4	2	62558	2	1	440	N
JAN 18.87	JAN 17.87	850 1100	1100 1100	2	10.2	2	62560	2	1	65	
JAN 19.87	JAN 18.87	1100 500	1300 1130	2	0.5	2	62562	2	1	6	E
JAN 20.87	JAN 19.87	500 500	1300 1900	2	14.0	2	62564	2	1	12	N
JAN 21.87	JAN 20.87	500 500	1100 500	2	0.9	2	62566	2	1	25	N
JAN 23.87	JAN 22.87	500 500	1100 1400	2	1.3	2	62569	2	1	16	N
JAN 24.87	JAN 23.87	500 500	800 2400	2	5.2	2	62571	2	1	0	E
JAN 29.87	JAN 28.87	500 500	530 1100	2	1.5	2	62573	2	1	24	N
JAN 30.87	JAN 29.87	500 500	500 500	2	3.0	2	62575	2	1	2	N
JAN 31.87	JAN 30.87	530 830	500 500	2	10.2	2	62577	2	1	46	N
FEB 3.87	FEB 2.87	500 500	2100 200	2	2.6	2	62579	2	1	67	H
FEB 5.87	FEB 4.87	500 500	1300 1600	2	2.2	2	62581	2	1	57	H
FEB 8.87	FEB 7.87	500 1100	600 1030	2	1.7	2	62583	2	1	67	H
FEB 9.87	FEB 8.87	1100 500	1400 300	2	3.0	2	62585	2	1	45	N
FEB 13.87	FEB 12.87	500 500	1030 2300	2	0.9	2	62587	2	1	13	N
FEB 23.87	FEB 22.87	500 500	930 1200	2	0.5	2	62589	2	1	109	N
MAR 1.87	FEB 28.87	830 1115	2200 1115	1	11.6	2	62591	2	1	81	
MAR 2.87	MAR 1.87	1115 500	1115 1400	3	7.4	2	62593	2	1	13	G
MAR 4.87	MAR 3.87	500 500	800 1400	2	1.0	2	62595	2	1	10	E
MAR 13.87	MAR 12.87	500 500	500 500	2	0.1	2	62597	2	1	10	E
MAR 26.87	MAR 25.87	500 500	500 800	1	7.2	2	62600	2	1	96	N
MAR 27.87	MAR 26.87	500 500	700 1000	1	1.7	2	62602	2	1	70	C
MAR 30.87	MAR 29.87	500 500	500 500	2	10.9	2	62604	2	1	97	
MAR 31.87	MAR 30.87	500 500	500 500	3	19.4	2	62606	2	1	42	NC
APR 1.87	MAR 31.87	500 500	500 1400	2	1.0	2	62608	2	1	17	N
APR 2.87	APR 1.87	500 500	2200 300	2	7.2	2	62610	2	1	23	N
APR 5.87	APR 4.87	830 1100	2200 1100	3	2.3	2	62612	2	1	103	
APR 6.87	APR 5.87	1100 500	1100 500	1	4.8	2	62614	2	1	115	
APR 7.87	APR 6.87	500 500	500 700	1	0.5	2	62616	2	1	202	N
APR 12.87	APR 11.87	830 1100	400 1100	1	4.0	2	62618	2	1	91	H
APR 13.87	APR 12.87	1100 500	1700 1600	1	11.4	2	62620	2	1	91	
APR 15.87	APR 14.87	500 500	1200 2100	1	3.0	2	62622	2	1	81	
APR 16.87	APR 15.87	500 500	500 500	1	0.7	2	62624	2	1	35	N
APR 24.87	APR 23.87	500 500	600 800	1	3.6	2	62626	2	1	89	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEN										#04	PAGE : 2		
REMOVAL DATE	EXPOSURE DATE	VOLUME HL	CONDUCT. UNHQ/CH	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L				
JAN 2-87	JAN 1-87	2.0	*****	*****	*****	*****	*****	*****	*****				
JAN 3-87	JAN 2-87	8.0	LG	*****	5.77	*****	0.0183	<T	LG				
JAN 7-87	JAN 6-87	65.0	89.0	*****	3.95	*****	0.1740	6.20	UG				
JAN 9-87	JAN 8-87	6.0	22.1	*****	4.44	*****	0.0537	1.80	0.68				
JAN 10-87	JAN 9-87	38.0	17.9	*****	4.48	*****	0.0435	0.70	0.58				
JAN 11-87	JAN 10-87	134.0	31.7	4.30	4.25	*****	0.0741	2.50	0.74				
JAN 17-87	JAN 16-87	113.0	35.2	4.20	4.19	*****	0.0805	2.55	0.84				
JAN 17-87	JAN 16-87	427.0	14.7	4.54	4.52	*****	0.0426	0.40	0.37				
JAN 19-87	JAN 18-87	2.0	*****	*****	*****	*****	*****	*****	*****				
JAN 20-87	JAN 19-87	109.0	2.9	5.58	5.83	*****	0.0160	0.25	LG				
JAN 21-87	JAN 20-87	15.0	15.1	*****	4.62	*****	0.0387	0.70	0.50				
JAN 23-87	JAN 22-87	14.0	23.6	*****	4.73	*****	0.0416	1.80	0.83				
JAN 24-87	JAN 23-87	2.0	*****	*****	*****	*****	*****	*****	*****				
JAN 29-87	JAN 28-87	24.0	14.6	*****	5.07	*****	0.0364	1.50	0.52				
JAN 30-87	JAN 29-87	5.0	5.6	*****	5.14	*****	0.0256	0.35	0.11				
JAN 31-87	JAN 30-87	302.0	27.5	4.12	4.25	*****	0.0827	1.60	0.65				
FEB 3-87	FEB 2-87	112.0	9.3	5.02	5.22	*****	0.0251	0.75	0.35				
FEB 5-87	FEB 4-87	81.0	19.0	*****	4.73	*****	0.0441	2.05	0.56				
FEB 8-87	FEB 7-87	74.0	23.0	*****	5.33	*****	0.0262	2.70	1.08				
FEB 9-87	FEB 8-87	88.0	10.6	*****	5.75	*****	0.0209	0.80	0.46				
FEB 13-87	FEB 12-87	8.0	12.0	*****	5.15	*****	0.0256	0.95	0.36				
FEB 23-87	FEB 22-87	35.0	100.0	*****	3.38	*****	0.4070	> 10.00	> 2.00				
MAR 1-87	FEB 28-87	605.0	25.0	4.25	4.35	*****	0.0738	1.60	0.37				
MAR 2-87	MAR 1-87	63.0	20.3	*****	4.99	*****	0.0553	1.25	0.34				
MAR 4-87	MAR 3-87	7.0	*****	*****	*****	*****	*****	*****	*****				
MAR 13-87	MAR 12-87	*****	*****	*****	*****	*****	*****	*****	*****				
MAR 16-87	MAR 15-87	444.0	40.2	4.00	4.17	*****	0.1000	3.40	0.86				
MAR 25-87	MAR 24-87	77.0	32.4	*****	4.61	*****	0.0549	3.75	0.96				
MAR 30-87	MAR 29-87	682.0	37.2	4.07	4.21	*****	0.0948	3.70	0.61				
MAR 31-87	MAR 30-87	552.0	7.2	4.87	5.21	*****	0.0215	0.65	0.08				
APR 1-87	MAR 31-87	11.0	4.2	*****	6.23	*****	0.0128	0.20	0.03				
APR 2-87	APR 1-87	109.0	26.2	4.22	4.39	*****	0.0713	1.75	0.60				
APR 5-87	APR 4-87	153.0	22.2	4.39	4.61	*****	0.0493	2.65	0.26				
APR 7-87	APR 6-87	355.0	16.0	*****	4.62	*****	0.0740	2.85	0.21				
APR 12-87	APR 11-87	65.0	8.0	*****	6.79	*****	0.0157	1.30	0.16				
APR 13-87	APR 12-87	235.0	16.0	*****	5.38	*****	0.0241	2.95	0.77				
APR 15-87	APR 14-87	666.0	14.0	*****	4.57	*****	0.0462	1.45	0.30				
APR 16-87	APR 15-87	157.0	54.0	*****	4.05	*****	0.1370	8.30	0.99				
APR 24-87	APR 23-87	16.0	17.0	*****	4.52	*****	0.0528	2.70	0.24				
APR 28-87	APR 27-87	206.0	98.0	3.60	3.85	*****	0.2060	UG	UG				

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM				804	PAGE : 3			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2:87	JAN 1:87	*****	*****	*****	*****	*****	*****	*****
JAN 3:87	JAN 2:87	ITS *****	<T	ITS *****	ITS *****	LG	0.050	0.0017
JAN 7:87	JAN 6:87	1.20	0.55	0.145	0.080	0.215	1.900	0.1122
JAN 9:87	JAN 8:87	ITS *****	0.14	ITS *****	ITS *****	LG	0.540	0.0363
JAN 10:87	JAN 9:87	0.52	0.18	0.040	<T	0.035	0.050	0.0331
JAN 11:87	JAN 10:87	0.30	0.22	<T	<T	0.055	0.620	0.0562
JAN 17:87	JAN 16:87	0.54	0.25	0.050	<T	0.065	0.435	0.0646
JAN 18:87	JAN 17:87	0.08	0.19	<T	<W	0.020	0.055	0.0302
JAN 19:87	JAN 18:87	*****	*****	*****	*****	*****	*****	*****
JAN 21:87	JAN 19:87	<T	0.05	<T	<W	0.015	0.085	0.0015
JAN 23:87	JAN 20:87	0.24	0.30	0.055	<T	0.135	0.200	0.0240
JAN 24:87	JAN 23:87	0.86	0.98	0.110	0.035	0.545	0.405	0.0166
JAN 29:87	JAN 28:87	*****	*****	*****	*****	*****	*****	*****
JAN 30:87	JAN 29:87	0.50	0.38	0.095	0.040	0.205	0.430	0.0085
JAN 31:87	JAN 30:87	<T	0.17	<T	0.050	0.095	0.005	0.0072
FEB 3:87	FEB 2:87	0.04	0.16	<T	<T	0.010	0.210	0.0562
FEB 5:87	FEB 4:87	0.14	0.10	<T	<T	0.055	0.290	0.0060
FEB 8:87	FEB 7:87	0.12	0.28	0.025	<T	0.095	0.850	0.0186
FEB 9:87	FEB 8:87	0.46	0.28	0.090	<T	0.105	1.500	0.0047
FEB 13:87	FEB 12:87	0.34	0.57	0.100	<T	0.310	0.360	0.0018
FEB 15:87	FEB 14:87	0.28	0.30	0.075	<T	0.135	0.265	0.0071
MAR 1:87	FEB 28:87	0.02	2.00	ITS *****	ITS *****	ITS *****	0.950	0.4169
MAR 2:87	MAR 1:87	<W	0.06	<T	<T	<T	0.020	0.0947
MAR 4:87	MAR 3:87	0.04	0.05	<T	<T	0.025	0.225	0.0324
MAR 13:87	MAR 12:87	*****	*****	*****	*****	*****	*****	*****
MAR 26:87	MAR 25:87	0.32	0.25	0.060	0.030	0.070	0.610	0.0676
MAR 27:87	MAR 26:87	0.36	0.36	0.035	0.040	0.070	1.550	0.0245
MAR 30:87	MAR 29:87	0.26	0.14	0.045	0.030	0.030	0.580	0.0617
MAR 31:87	MAR 30:87	0.04	0.02	<T	<T	0.020	0.100	0.0062
APR 1:87	MAR 31:87	<T	0.10	<T	0.015	0.070	0.070	0.0006
APR 2:87	APR 1:87	0.06	0.11	<T	0.015	0.035	0.360	0.0407
APR 5:87	APR 4:87	0.14	0.42	0.055	0.035	0.285	0.500	0.0245
APR 6:87	APR 5:87	0.09	0.35	0.030	0.025	0.195	0.560	0.0240
APR 7:87	APR 6:87	0.28	0.19	0.060	0.035	0.140	0.580	0.0002
APR 12:87	APR 11:87	1.26	0.31	0.235	0.030	0.050	0.640	0.0042
APR 13:87	APR 12:87	<T	0.10	<T	0.005	0.025	0.245	0.0269
APR 15:87	APR 14:87	1.44	0.40	0.310	0.085	0.130	0.700	0.0891
APR 16:87	APR 15:87	0.24	0.17	0.075	0.075	0.070	0.255	0.0302
APR 24:87	APR 23:87	3.86	1.08	1.010	0.195	0.255	1.750	0.1413

UG

ITS

LG

<W

<B

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-NIPHER		02-APIOS	03-SPECIAL		
				03-COMP/04-OTHER							
APR 28.87	APR 27.87	500 500	1500 300	1	7.2	1	62628	2	1	90	JH
MAY 11.87	MAY 10.87	500 500	2200 2300	1	2.1	1	62630	2	1	U	JCQ
MAY 12.87	MAY 11.87	500 500	1630 1645	1	0.2	1	62632	2	1	100	E N
MAY 15.87	MAY 14.87	500 500	1630 2200	1	11.8	1	62634	2	1	112	C H
MAY 19.87	MAY 18.87	500 500	700 1400	1	9.2	1	62636	2	1	71	
MAY 20.87	MAY 19.87	500 500	*** 400	1	2.6	1	62638	2	1	82	E
MAY 21.87	MAY 20.87	500 500	600 1000	1	3.0	1	62640	2	1	66	
MAY 22.87	MAY 21.87	500 500	800 930	1	1.6	1	62642	2	1	89	
MAY 27.87	MAY 26.87	500 500	800 1300	1	4.8	1	62644	2	1	103	A
MAY 31.87	MAY 30.87	500 500	1140 2300	1	6.6	1	62646	2	1	97	A
JUN 2.87	JUN 1.87	500 500	1540 1700	1	5.9	1	62648	2	1	46	Q
JUN 6.87	JUN 5.87	500 500	1200 1400	1	1.0	1	62650	2	1	92	N H
JUN 7.87	JUN 6.87	500 500	1030 *** 400	1	3.4	1	62652	2	1	71	HM
JUN 9.87	JUN 8.87	500 500	1000 1200	1	1.0	1	62654	2	1	97	A
JUN 12.87	JUN 11.87	500 500	2000 300	1	7.7	1	62656	2	1	91	A
JUN 22.87	JUN 20.87	600 1030	2400 630	1	16.7	1	62658	2	1	102	NZ
JUN 26.87	JUN 25.87	800 800	200 400	1	3.0	1	62660	2	1	95	C
JUN 27.87	JUN 26.87	800 730	1600 1700	1	0.4	1	62662	2	1	103	E N
JUN 28.87	JUN 27.87	730 1410	300 500	1	4.2	1	62664	2	1	103	C
JUN 29.87	JUN 28.87	1410 1500	*** 400	1	0.1	1	62666	2	1	103	E N
JUL 3.87	JUL 2.87	800 1000	*** 400	1	0.1	1	62668	2	1	102	E N
JUL 4.87	JUL 3.87	1000 800	1330 1500	1	16.2	1	62670	2	1	103	A
JUL 7.87	JUL 6.87	1630 700	1830 1900	1	3.0	1	62672	2	1	91	A
JUL 9.87	JUL 7.87	730 2000	*** 400	1	42.0	1	62674	2	1	100	C
JUL 12.87	JUL 11.87	530 1600	1530 1700	1	14.5	1	62680	2	1	65	CH
JUL 14.87	JUL 13.87	500 500	200 500	1	4.5	1	62684	2	1	99	J
JUL 15.87	JUL 14.87	500 500	500 900	1	23.1	1	62686	2	1	112	J
JUL 20.87	JUL 19.87	500 500	2130 *** 400	1	3.4	1	62688	2	1	108	E
JUL 21.87	JUL 20.87	500 730	2300 100	1	26.0	1	62690	2	1	104	N
JUL 25.87	JUL 24.87	530 900	1830 *** 400	1	0.1	1	62692	2	1	65	EO
JUL 30.87	JUL 29.87	800 800	*** 400	1	1.7	1	62694	2	1	72	JH
AUG 3.87	AUG 2.87	500 500	1200 1700	1	44.8	1	62696	2	1	117	
AUG 8.87	AUG 7.87	500 1000	1630 1730	1	27.5	1	62698	2	1	96	JH
AUG 9.87	AUG 8.87	1000 1130	600 1130	1	4.1	1	62700	2	1		
AUG 17.87	AUG 16.87	500 500	1820 1850	1	3.0	1	62702	2	1		
AUG 19.87	AUG 18.87	500 500	1930 1955	1	1.2	1	62704	2	1		
AUG 22.87	AUG 21.87	500 500	*** 300	1	0.6	1	62706	2	1		
AUG 24.87	AUG 23.87	500 500	1800 *** 400	1	2.7	1	62707	2	1		
AUG 27.87	AUG 26.87	500 500	1800 500	1		1	62709	2	1		
AUG 29.87	AUG 28.87	500 700	1500 2000	1		1		2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEN				#04		PAGE : 5			
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H ₂ TO PH _{6.3} MG/L	TOTAL H ⁺ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 26/87	APR 27/87	420.0	21.9	UG	5.19	*****	0.0177	3.80	0.85
MAY 11/87	MAY 10/87	105.0	93.1	U	7.54	*****	0.0010	12.85	3.15
MAY 12/87	MAY 11/87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 15/87	MAY 14/87	758.0	33.5	4.25	4.52	*****	0.0614	5.65	0.84
MAY 19/87	MAY 18/87	665.0	43.7	3.94	4.13	*****	0.0906	5.50	0.50
MAY 20/87	MAY 19/87	115.0	60.3	3.83	3.89	*****	0.1500	6.00	0.72
MAY 22/87	MAY 20/87	156.0	100.0	3.54	3.52	*****	0.3240	9.50	1.93
MAY 25/87	MAY 21/87	68.0	63.9	*****	3.93	*****	0.1460	6.55	1.17
MAY 27/87	MAY 26/87	275.0	93.0	3.67	3.68	*****	0.0290	8.85	1.09
MAY 31/87	MAY 30/87	437.0	19.4	4.44	4.73	*****	0.0364	2.30	0.57
JUN 2/87	JUN 1/87	367.0	36.3	4.16	4.34	*****	0.0692	3.65	1.15
JUN 6/87	JUN 5/87	30.0	48.5	*****	7.51	*****	0.0121	5.05	1.46
JUN 7/87	JUN 6/87	201.0	21.5	4.93	5.38	*****	0.0284	3.40	0.84
JUN 9/87	JUN 8/87	46.0	47.0	*****	*****	*****	0.0187	4.90	1.43
JUN 12/87	JUN 11/87	483.0	61.8	3.79	3.80	*****	0.1600	6.45	0.86
JUN 22/87	JUN 20/87	1802.0	38.6	4.17	4.19	*****	0.0871	5.25	0.55
JUN 26/87	JUN 25/87	175.0	100.0	3.49	3.47	*****	0.3640	14.75	1.80
JUN 27/87	JUN 26/87	*****	*****	*****	*****	*****	*****	*****	*****
JUN 28/87	JUN 27/87	256.0	5.8	UG	5.82	*****	0.0135	LG	0.10
JUN 29/87	JUN 28/87	*****	*****	*****	*****	*****	*****	*****	*****
JUL 3/87	JUL 2/87	*****	*****	*****	*****	*****	*****	*****	*****
JUL 4/87	JUL 3/87	1202.0	43.9	4.03	4.13	*****	0.1000	5.50	0.59
JUL 7/87	JUL 6/87	197.0	36.1	4.26	4.45	*****	0.0586	5.35	1.00
JUL 9/87	JUL 7/87	2766.0	33.9	4.17	4.22	*****	0.0812	3.20	0.60
JUL 12/87	JUL 11/87	854.0	19.9	4.57	4.64	*****	0.0422	2.85	0.45
JUL 14/87	JUL 13/87	1534.0	19.5	4.36	4.44	*****	0.0538	2.25	0.35
JUL 15/87	JUL 14/87	188.0	3.3	UG	5.51	*****	0.0165	0.15	0.05
JUL 20/87	JUL 19/87	1480.0	25.2	4.16	6.62	*****	0.0161	5.30	0.35
JUL 21/87	JUL 20/87	196.0	14.2	4.44	5.13	*****	0.0258	2.10	0.40
JUL 23/87	JUL 22/87	1936.0	76.5	*****	3.78	*****	0.2040	10.35	0.82
JUL 30/87	JUL 29/87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 3/87	AUG 2/87	3106.0	24.0	4.04	4.52	*****	0.0549	3.85	0.54
AUG 8/87	AUG 7/87	46.0	21.0	4.34	4.34	*****	0.0666	2.45	0.21
AUG 9/87	AUG 8/87	1644.0	21.0	4.06	4.35	*****	0.0666	2.45	0.21
AUG 17/87	AUG 16/87	224.0	*****	*****	*****	*****	*****	*****	*****
AUG 19/87	AUG 18/87	50.0	12.5	*****	7.24	*****	0.0154	1.25	0.41
AUG 22/87	AUG 21/87	140.0	26.5	3.92	4.39	*****	0.0659	3.70	0.57
AUG 24/87	AUG 23/87	45.0	80.0	*****	7.58	*****	0.0199	12.55	1.13
AUG 27/87	AUG 26/87	604.0	16.5	4.36	4.53	*****	0.0497	2.10	0.36
AUG 29/87	AUG 28/87	167.0	8.0	UG	6.03	*****	0.0185	1.10	0.34

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM			#04	PAGE : 6				
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 28/87	APR 27/87	1.26	0.26	0.185	0.060	0.065	0.970	0.0003
MAY 11/87	MAY 10/87	U	1.83	2.200	U	0.530	4.950	0.0000
MAY 12/87	MAY 11/87	*****	*****	*****	*****	*****	*****	*****
MAY 15/87	MAY 14/87	1.96	0.22	0.285	0.050	0.025	0.680	0.0302
MAY 19/87	MAY 18/87	0.30	0.11	0.050	<T	<T	0.820	0.0741
MAY 20/87	MAY 19/87	0.22	0.12	0.045	<T	<T	0.535	0.1288
MAY 21/87	MAY 20/87	0.14	0.26	0.015	0.030	0.075	0.650	0.3020
MAY 22/87	MAY 21/87	0.64	0.29	0.095	0.105	0.100	1.200	0.1175
MAY 27/87	MAY 26/87	0.64	0.22	0.105	0.030	0.055	0.725	0.2089
MAY 31/87	MAY 30/87	0.74	0.09	0.175	0.035	0.075	0.285	0.0186
JUN 2/87	JUN 1/87	0.84	0.16	0.145	0.050	0.060	0.900	0.0457
JUN 6/87	JUN 5/87	3.16	0.28	0.670	0.190	0.270	*****	0.0000
JUN 7/87	JUN 6/87	1.30	0.16	0.235	0.055	0.045	0.950	0.0042
JUN 9/87	JUN 8/87	3.10	0.28	0.475	0.210	0.105	2.300	0.0001
JUN 12/87	JUN 11/87	0.55	0.20	0.115	0.050	0.040	0.540	0.1585
JUN 22/87	JUN 20/87	0.56	0.10	0.095	0.025	<T	0.720	0.0646
JUN 26/87	JUN 25/87	0.58	0.45	0.140	0.055	0.125	0.900	0.3388
JUN 27/87	JUN 26/87	*****	*****	*****	*****	*****	*****	*****
JUN 28/87	JUN 27/87	0.12	0.05	0.025	<T	0.055	0.175	0.0004
JUN 29/87	JUN 28/87	*****	*****	*****	*****	*****	*****	*****
JUN 3/87	JUL 2/87	*****	*****	*****	*****	*****	*****	*****
JUL 4/87	JUL 3/87	0.30	0.17	0.090	0.050	0.040	0.950	0.0741
JUL 7/87	JUL 6/87	1.64	0.30	0.290	0.060	0.135	0.630	0.0355
JUL 9/87	JUL 7/87	0.36	0.01	0.070	<T	0.030	0.475	0.0603
JUL 12/87	JUL 11/87	0.52	0.10	0.100	0.030	0.030	0.505	0.0229
JUL 14/87	JUL 13/87	0.18	0.10	0.040	<T	<T	0.370	0.0363
JUL 15/87	JUL 14/87	0.02	<W	0.005	<W	<T	0.035	0.0031
JUL 20/87	JUL 19/87	1.15	1.30	1.15	0.125	1.15	0.330	0.0002
JUL 21/87	JUL 20/87	0.54	0.20	0.115	0.030	0.040	0.830	0.0074
JUL 25/87	JUL 24/87	0.82	0.22	0.140	0.030	0.040	0.830	0.1660
JUL 30/87	JUL 29/87	*****	*****	*****	*****	*****	*****	*****
AUG 3/87	AUG 2/87	0.62	0.11	0.060	<T	0.035	0.675	0.0302
AUG 8/87	AUG 7/87	0.14	0.09	0.010	<T	0.005	0.155	0.0457
AUG 9/87	AUG 8/87	0.12	0.13	<T	<W	<T	0.150	0.0447
AUG 17/87	AUG 16/87	*****	*****	*****	*****	*****	*****	*****
AUG 19/87	AUG 18/87	0.64	0.07	0.130	0.045	0.050	0.900	0.0001
AUG 22/87	AUG 21/87	0.88	0.11	0.155	0.045	0.040	0.505	0.0407
AUG 24/87	AUG 23/87	6.60	11.50	0.890	1.260	7.710	0.240	0.0000
AUG 27/87	AUG 26/87	0.32	0.11	0.070	<T	0.025	0.235	0.0295
AUG 29/87	AUG 28/87	0.48	0.10	0.065	<T	0.025	0.515	0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM

#04

PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICIENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		02-NIPHER		02-APIOS	01-HOE		
				02-SNOW				03-SPECIAL	03-AES		
				03-COMP/04-OTHER							
AUG 31.87	AUG 30.87	500 500	200 430	1	1.0	1	62711	2	1	39	N
SEP 1.87	AUG 31.87	500 500	**** 400	1	1.0	1	62713	2	1	62	
SEP 2.87	SEP 1.87	500 500	**** 430	1	2.0	1	62715	2	1	82	H
SEP 4.87	SEP 3.87	500 500	**** ****	1	5.0	1	62717	2	1	80	
SEP 12.87	SEP 11.87	500 500	1200 1400	1	25.0	1	62719	2	1	107	
SEP 13.87	SEP 12.87	500 500	1400 1600	1	3.0	1	62721	2	1	84	
SEP 14.87	SEP 13.87	500 500	1300 1315	1	0.2	1	62723	2	1	***	E
SEP 17.87	SEP 16.87	500 500	2200 300	1	4.4	1	62725	2	1	83	N
SEP 18.87	SEP 17.87	500 500	1300 1400	1	5.5	1	62727	2	1	93	A
SEP 19.87	SEP 18.87	500 500	800 800	1	4.9	1	62729	2	1	85	
SEP 20.87	SEP 19.87	500 500	1300 1700	1	3.3	1	62731	2	1	***	EI
SEP 21.87	SEP 20.87	500 500	200 500	1	11.0	1	62733	2	1	99	
SEP 22.87	SEP 21.87	500 500	2030 ****	1	3.1	1	62735	2	1	76	
SEP 28.87	SEP 27.87	500 500	1400 1600	1	2.9	1	62737	2	1	70	
SEP 30.87	SEP 29.87	500 500	1400 1630	1	12.6	1	62739	2	1	103	
OCT 1.87	SEP 30.87	500 500	1400 1600	1	3.9	1	62741	2	1	85	J
OCT 2.87	OCT 1.87	500 500	2100 2200	1	2.5	1	62743	2	1	79	
OCT 3.87	OCT 2.87	500 500	1400 2000	1	6.5	1	62745	2	1	93	
OCT 6.87	OCT 5.87	500 500	1400 2000	1	1.7	1	62747	2	1	78	H
OCT 8.87	OCT 7.87	500 500	1200 ****	1	10.1	1	62749	2	1	92	
OCT 11.87	OCT 10.87	500 500	**** 400	3	1.5	1	62751	2	1	58	HM
OCT 16.87	OCT 15.87	500 500	1000 1600	1	5.9	1	62753	2	1	83	
OCT 20.87	OCT 19.87	500 500	**** 200	1	0.5	1	62755	2	1	74	
OCT 21.87	OCT 20.87	500 500	1200 1600	1	3.1	1	62758	2	1	85	JC
OCT 22.87	OCT 21.87	500 500	700 1300	3	6.0	1	62760	2	1	90	
OCT 23.87	OCT 22.87	500 500	1600 300	3	11.0	1	62762	2	1	97	
OCT 25.87	OCT 24.87	500 500	1100 2000	1	19.0	1	62764	2	1	105	J
OCT 27.87	OCT 26.87	500 500	**** ****	3	2.4	2	62766	2	1	100	
OCT 28.87	OCT 27.87	500 500	500 1300	3	16.4	2	62768	2	1	93	
OCT 30.87	OCT 29.87	500 500	**** ****	3	2.8	2	62770	2	1	113	HM
NOV 2.87	NOV 1.87	500 500	1500 1505	4	0.1	2	62772	2	1	***	E
NOV 4.87	NOV 3.87	500 500	500 700	1	1.4	2	62774	2	1	172	N
NOV 5.87	NOV 4.87	500 500	2300 2140	1	0.3	2	62776	2	1	187	N
NOV 6.87	NOV 5.87	500 500	2200 500	2	3.7	2	62778	2	1	90	HCM
NOV 7.87	NOV 6.87	500 500	500 800	2	1.7	2	62780	2	1	52	HCM
NOV 8.87	NOV 7.87	500 500	**** 500	1	5.2	2	62782	2	1	102	
NOV 9.87	NOV 8.87	500 500	500 ****	1	6.4	2	62784	2	1	96	A
NOV 18.87	NOV 17.87	500 500	600 1600	1	2.8	2	62786	2	1	170	NJ
NOV 19.87	NOV 18.87	500 500	700 1200	1	1.5	2	62788	2	1	125	NJ
NOV 20.87	NOV 19.87	500 500	2300 300	3	2.0	2	62790	2	1	56	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEN										#04	PAGE : 8		
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L				
AUG 31-87	AUG 30-87	25.0	56.0	*****	UG	*****	0.1240	6.40	1.05				
SEP 1-87	AUG 31-87	106.0	9.0	*****		*****	0.0194	1.50	0.20				
SEP 2-87	SEP 1-87	40.0	LG	*****	7.01	*****	0.0170	0.60	0.14				
SEP 4-87	SEP 3-87	258.0	LG	*****	5.55	*****	0.0217	0.85	0.10	LG			
SEP 12-87	SEP 11-87	1715.0	65.0	3.76	3.82	*****	0.1790	7.10	0.66				
SEP 13-87	SEP 12-87	162.0	88.0	3.61	3.69	*****	0.2380	9.00	1.09				
SEP 14-87	SEP 13-87	*****	*****	*****	*****	*****	*****	*****	*****	*****			
SEP 17-87	SEP 16-87	235.0	43.5	4.00	4.13	*****	0.1030	4.95	0.85				
SEP 18-87	SEP 17-87	329.0	51.0	*****	3.98	*****	0.1370	5.15	0.76				
SEP 19-87	SEP 18-87	270.0	15.0	4.34	4.56	*****	0.0475	1.35	0.30				
SEP 20-87	SEP 19-87	*****	*****	*****	*****	*****	*****	*****	*****	*****			
SEP 21-87	SEP 20-87	701.0	37.5	4.06	4.20	*****	0.0920	3.85	0.88				
SEP 22-87	SEP 21-87	155.0	19.0	4.34	4.59	*****	0.0484	2.00	0.55				
SEP 28-87	SEP 27-87	131.0	59.0	4.02	4.01	*****	0.1330	7.10	0.99				
SEP 30-87	SEP 29-87	836.0	36.0	4.32	4.42	*****	0.0705	5.60	0.51				
OCT 1-87	SEP 30-87	215.0	LG	5.64	6.22	*****	0.0198	1.10	0.06	LG			
OCT 2-87	OCT 1-87	128.0	21.5	6.42	6.73	*****	0.0172	4.05	0.76				
OCT 3-87	OCT 2-87	391.0	LG	5.86	6.34	*****	0.0177	0.95	0.11	LG			
OCT 6-87	OCT 5-87	86.0	16.0	*****	4.66	*****	0.0441	1.95	0.47				
OCT 8-87	OCT 7-87	598.0	7.5	4.93	5.22	*****	0.0237	1.15	0.23				
OCT 11-87	OCT 10-87	317.0	16.0	*****	6.17	*****	0.0203	2.45	0.64				
OCT 16-87	OCT 15-87	24.0	20.0	4.26	4.47	*****	0.0535	2.50	0.31				
OCT 20-87	OCT 19-87	169.0	>	3.85	4.11	*****	0.1030	3.15	1.57				
OCT 21-87	OCT 20-87	347.0	14.5	4.88	3.58	*****	0.2680	8.70	3.50	UG			
OCT 22-87	OCT 21-87	690.0	16.5	4.81	4.73	*****	0.0395	1.60	0.36				
OCT 23-87	OCT 22-87	347.0	25.0	4.60	4.63	*****	0.0430	1.30	0.57				
OCT 25-87	OCT 24-87	1290.0	42.0	*****	4.37	*****	0.0619	2.25	0.49				
OCT 27-87	OCT 26-87	155.0	16.0	*****	4.00	*****	0.1320	3.00	0.87				
OCT 28-87	OCT 27-87	986.0	16.0	*****	4.47	*****	0.0643	1.65	0.35				
OCT 30-87	OCT 29-87	204.0	LG	*****	5.93	*****	0.0189	1.00	0.34				
NOV 2-87	NOV 1-87	*****	*****	*****	*****	*****	*****	*****	*****	*****			
NOV 4-87	NOV 3-87	155.0	23.0	4.15	4.39	*****	0.0724	3.30	0.42				
NOV 5-87	NOV 4-87	336.0	17.0	*****	6.26	*****	0.0208	3.55	0.82				
NOV 6-87	NOV 5-87	215.0	2.5	6.00	6.44	*****	0.0156	0.80	0.07	LG			
NOV 7-87	NOV 6-87	357.0	13.5	*****	6.37	*****	0.0172	1.15	0.14				
NOV 8-87	NOV 7-87	382.0	19.0	4.28	4.35	*****	0.0792	1.90	0.37				
NOV 9-87	NOV 8-87	386.0	25.0	4.19	4.28	*****	0.0098	2.50	0.58				
NOV 10-87	NOV 9-87	306.0	20.0	3.82	4.50	*****	0.0619	2.50	0.64				
NOV 13-87	NOV 12-87	121.0	14.0	4.36	5.00	*****	0.0364	2.75	0.45				
NOV 15-87	NOV 14-87	72.0	10.0	*****	6.67	*****	0.0211	1.50	0.62				

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM				#04	PAGE : 9			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 31.87	AUG 30.87	!IS *****	0.34	!IS *****	!IS *****	!IS *****	1.000	0.1000
SEP 1.87	AUG 31.87	!IS *****	0.12	!IS *****	!IS *****	!IS *****	0.795	0.0001
SEP 2.87	SEP 1.87	<T	0.05	<T	<T	0.040	0.325	0.0006
SEP 4.87	SEP 3.87	<T	0.07	<T	0.025	<T	0.300	0.0028
SEP 12.87	SEP 11.87	0.26	0.12	0.050	<T	0.015	0.490	0.1514
SEP 13.87	SEP 12.87	0.20	0.19	<T	0.035	0.035	0.710	0.2044
SEP 14.87	SEP 13.87	!NR *****	!NR *****	!NR *****	!NR *****	!NR *****	!NR *****	!NR *****
SEP 17.87	SEP 16.87	0.42	0.10	0.065	0.040	0.035	0.850	0.0741
SEP 18.87	SEP 17.87	0.22	0.16	<T	0.025	0.040	0.565	0.1047
SEP 19.87	SEP 18.87	<W	0.02	<T	0.020	<T	0.265	0.0275
SEP 20.87	SEP 19.87	*****	*****	*****	*****	*****	*****	*****
SEP 21.87	SEP 20.87	0.32	0.15	0.050	0.050	0.020	0.835	0.0631
SEP 22.87	SEP 21.87	0.36	0.12	0.060	<T	0.025	0.475	0.0257
SEP 28.87	SEP 27.87	1.08	0.17	0.155	0.055	0.035	0.850	0.0977
SEP 30.87	SEP 29.87	0.40	0.13	0.045	0.035	0.025	1.350	0.0380
OCT 1.87	SEP 30.87	<T	0.04	<T	0.025	<T	0.385	0.0006
OCT 2.87	OCT 1.87	1.64	0.11	0.235	0.125	0.110	0.825	0.0002
OCT 3.87	OCT 2.87	0.32	<T	0.050	<T	0.040	0.210	0.0005
OCT 6.87	OCT 5.87	0.66	0.05	0.105	0.025	0.035	0.290	0.0219
OCT 8.87	OCT 7.87	0.14	0.03	0.025	<T	0.085	0.355	0.0060
OCT 11.87	OCT 10.87	0.88	0.27	0.140	0.045	0.085	0.700	0.0007
OCT 18.87	OCT 17.87	0.38	0.07	0.060	<T	0.025	0.455	0.0359
OCT 20.87	OCT 19.87	0.98	0.21	0.150	0.045	0.100	!IS *****	0.0776
OCT 21.87	OCT 20.87	0.96	0.61	0.165	0.080	0.075	2.050	0.2630
OCT 22.87	OCT 21.87	0.12	0.11	0.035	<T	0.025	0.485	0.0186
OCT 23.87	OCT 22.87	0.24	0.06	0.040	<T	0.010	0.435	0.0234
OCT 25.87	OCT 24.87	0.38	0.09	0.040	0.030	0.025	0.310	0.0427
OCT 27.87	OCT 26.87	0.20	0.27	<T	0.025	0.025	0.170	0.1000
OCT 28.87	OCT 27.87	<T	0.08	<T	0.010	<T	0.260	0.0359
OCT 30.87	OCT 29.87	<T	0.13	<T	0.015	<T	0.460	0.0012
NOV 2.87	NOV 1.87	*****	*****	*****	*****	*****	*****	*****
NOV 4.87	NOV 3.87	0.10	0.21	0.045	0.050	0.075	0.520	0.0407
NOV 5.87	NOV 4.87	0.62	0.21	0.170	0.085	0.050	!IS *****	0.0005
NOV 6.87	NOV 5.87	0.16	0.15	0.040	<T	0.015	0.220	0.0004
NOV 7.87	NOV 6.87	0.12	0.23	0.045	<T	0.120	0.325	0.0004
NOV 8.87	NOV 7.87	0.24	0.13	0.030	0.030	0.015	0.155	0.0447
NOV 9.87	NOV 8.87	0.14	0.21	0.015	0.060	0.050	0.365	0.0525
NOV 16.87	NOV 17.87	0.40	0.26	0.060	0.045	0.080	0.615	0.0316
NOV 19.87	NOV 18.87	0.20	0.15	0.040	0.030	<T	0.900	0.0100
NOV 20.87	NOV 19.87	0.72	0.19	0.140	0.045	0.030	0.650	0.0002

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM										PAGE : 10	
#04											
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN 02-SNOW 03-COMP/04-OTHER			01-STD. 02-NIPHER	02-APIOS 03-SPECIAL	01-HOE 03-AES		
NOV 21-87	NOV 20-87	500 500	100 300	2	1.7	2	62792	2	1	37	NHCH
NOV 25-87	NOV 24-87	500 500	1300 1430	3	2.3	2	62794	2	1	70	JH
NOV 26-87	NOV 25-87	500 500	500 1800	3	41.6	2	62796	2	1	95	JH
NOV 29-87	NOV 28-87	500 1100	1800 2100	1	9.8	2	62798	2	1	100	J
NOV 30-87	NOV 29-87	1100 500	2200 300	1	1.4	2	62800	2	1	81	
DEC 1-87	NOV 30-87	500 500	1800 2000	3	1.5	2	62802	2	1	76	
DEC 2-87	DEC 1-87	500 500	500 1600	2	1.3	2	62804	2	1	10	
DEC 3-87	DEC 2-87	500 500	700 1000	2	1.7	2	62806	2	1	41	N
DEC 4-87	DEC 3-87	500 500	*****	2	2.9	2	62808	2	1	21	N
DEC 8-87	DEC 7-87	500 500	*****	3	0.8	2	62810	2	1	122	N
DEC 9-87	DEC 8-87	500 500	2200 300	1	3.5	2	62812	2	1	97	J
DEC 10-87	DEC 9-87	500 500	1000 1300	1	5.9	2	62814	2	1	112	JH
DEC 12-87	DEC 11-87	500 500	1600 200	1	4.0	2	62816	2	1	101	
DEC 13-87	DEC 12-87	500 500	1300 1700	2	5.9	2	62818	2	1	51	
DEC 14-87	DEC 13-87	500 500	1000 1100	1	0.1	2	62820	2	1	***	E
DEC 16-87	DEC 15-87	500 500	530 1100	2	29.0	2	62822	2	1	54	C
DEC 20-87	DEC 19-87	500 1100	2000 1000	3	21.4	2	62824	2	1	86	X
DEC 22-87	DEC 21-87	500 500	1200 1900	3	0.5	2	62826	2	1	***	E
DEC 25-87	DEC 24-87	500 500	100 300	1	9.6	2	62828	2	1	98	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AERO/CHEM				#04	PAGE : 11				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH0.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 21-87	NOV 20-87	41.0	<T	*****	6.36	*****	0.0166	<T	<T
NOV 25-87	NOV 24-87	104.0	19.0	3.61	4.44	*****	0.0606	1.60	0.42
NOV 26-87	NOV 25-87	2542.0	10.0	3.84	4.53	*****	0.0514	0.75	0.09
NOV 29-87	NOV 28-87	629.0	11.0	3.86	4.56	*****	0.0448	1.00	0.11
NOV 30-87	NOV 29-87	73.0	62.5	*****	3.83	*****	0.1600	3.95	1.15
DEC 1-87	NOV 30-87	74.0	22.0	*****	4.42	*****	0.0621	2.00	0.48
DEC 2-87	DEC 1-87	9.0	<T	*****	6.07	*****	0.0169	<T	<T
DEC 3-87	DEC 2-87	45.0	LG	*****	6.02	*****	0.0188	0.55	0.10
DEC 4-87	DEC 3-87	40.0	D	*****	4.67	D	0.0413	0.90	0.30
DEC 8-87	DEC 7-87	63.0	35.0	*****	4.08	*****	0.1050	2.85	0.50
DEC 9-87	DEC 8-87	218.0	34.0	3.61	4.09	*****	0.1030	2.45	0.53
DEC 10-87	DEC 9-87	425.0	18.0	3.77	4.40	*****	0.0614	1.70	0.27
DEC 12-87	DEC 11-87	259.0	38.0	3.98	4.08	*****	0.1020	2.50	0.78
DEC 13-87	DEC 12-87	196.0	15.0	4.77	5.01	*****	0.0327	2.15	0.44
DEC 14-87	DEC 13-87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 16-87	DEC 15-87	1005.0	15.0	4.34	4.46	*****	0.0522	1.60	0.27
DEC 20-87	DEC 19-87	1182.0	*****	*****	*****	*****	*****	*****	*****
DEC 22-87	DEC 21-87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 25-87	DEC 24-87	606.0	24.0	4.41	4.41	*****	0.0666	2.00	0.43

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELLESEY/DAILY/AEROCHEM				#04	PAGE : 12			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 21-87	NOV 20-87	<T	0.04	<T	0.015	0.035	0.065	0.0004
NOV 25-87	NOV 24-87	0.34	0.43	<T	<T	0.120	0.360	0.0363
NOV 26-87	NOV 25-87	<W	0.02	<W	0.005	<W	0.065	0.0295
NOV 29-87	NOV 28-87	<W	0.02	<W	0.005	<T	0.080	0.0275
NOV 30-87	NOV 29-87	0.20	0.12	<T	0.020	0.030	0.215	0.1479
DEC 1-87	NOV 30-87	0.16	0.22	<T	0.015	0.030	0.520	0.0360
DEC 2-87	DEC 1-87	!!S	0.01	!!S	!!S	!!S	0.065	0.0009
DEC 3-87	DEC 2-87	!!S	0.23	!!S	!!S	!!S	0.195	0.0010
DEC 4-87	DEC 3-87	!!S	0.07	!!S	!!S	!!S	0.205	0.0214
DEC 8-87	DEC 7-87	!!S	0.30	!!S	!!S	!!S	0.125	0.0832
DEC 9-87	DEC 8-87	0.22	0.45	0.040	<T	0.150	0.165	0.0813
DEC 10-87	DEC 9-87	<T	0.08	<T	0.015	0.190	0.305	0.0398
DEC 12-87	DEC 11-87	0.18	0.19	<T	<T	0.055	0.325	0.0832
DEC 13-87	DEC 12-87	0.28	0.24	0.040	0.015	0.045	0.710	0.0098
DEC 14-87	DEC 13-87	!!S	!!S	!!S	!!S	!!S	!!S	!!S
DEC 16-87	DEC 15-87	0.16	0.01	0.040	<T	<T	0.145	0.0347
DEC 20-87	DEC 19-87	!!S	!!S	!!S	!!S	!!S	!!S	!!S
DEC 22-87	DEC 21-87	!!S	!!S	!!S	!!S	!!S	!!S	!!S
DEC 25-87	DEC 24-87	0.18	0.07	<T	0.010	0.070	0.270	0.0369

PART VII

QUEBEC INTERCOMPARISON SITE

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APLOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY	COMMENTS FIELD OFFICE		
				01-RAIN 02-SNOW 03-COMP/04-OTHER		01-STD. 02-NIPHER		02-APLOS 03-SPECIAL	01-MOE 03-AES				
JAN 3,87	JAN 2,87	825	840	1735 ****	2	14.3	2	75051	2	1	U	55	EGC
JAN 4,87	JAN 3,87	845	850	****	2	0.3	2	75052	2	1	1	***	E
JAN 5,87	JAN 4,87	850	840	500 700	2	0.1	2	75053	2	1	1	***	E
JAN 6,87	JAN 5,87	845	815	930	2	0.1	2	75054	2	1	1	***	E
JAN 7,87	JAN 6,87	855	820	710 820	2	0.4	2	75055	2	1	1	101	N
JAN 8,87	JAN 7,87	825	835	1800 835	2	10.2	2	75056	2	1	1	26	N
JAN 9,87	JAN 8,87	840	825	840 1400	2	0.3	2	75057	2	1	1	***	E
JAN 10,87	JAN 9,87	840	850	840 1300	2	0.1	2	75058	2	1	1	***	E
JAN 11,87	JAN 10,87	855	835	1000 1545	2	2.8	2	75059	2	1	1	77	N
JAN 12,87	JAN 11,87	840	830	840 830	2	12.0	2	75060	2	1	1	40	N
JAN 13,87	JAN 12,87	835	845	1400 845	2	2.2	2	75061	2	1	1	28	N
JAN 14,87	JAN 13,87	850	825	850 1400	2	0.1	2	75062	2	1	1	***	E
JAN 15,87	JAN 14,87	830	810	400 830	1	0.1	2	75063	2	1	1	***	E
JAN 16,87	JAN 15,87	815	830	815 200	3	6.8	2	75064	2	1	1	73	C
JAN 17,87	JAN 16,87	820	825	1320 2100	3	7.2	2	75065	2	1	1	59	N
JAN 18,87	JAN 17,87	830	830	830 850	2	0.1	2	75066	2	1	1	***	E
JAN 19,87	JAN 18,87	830	830	830 825	2	0.1	2	75067	2	1	1	***	E
JAN 20,87	JAN 19,87	835	825	300 825	2	0.6	2	75068	2	1	1	49	N
JAN 21,87	JAN 20,87	830	830	830 1530	2	17.5	2	75069	2	1	1	57	CM
JAN 22,87	JAN 21,87	835	820	1540 820	2	1.4	2	75070	2	1	1	34	N
JAN 23,87	JAN 22,87	825	835	825 1600	2	0.1	2	75071	2	1	1	7	XN
JAN 24,87	JAN 23,87	840	840	840 1600	2	0.3	2	75072	2	1	1	***	E
JAN 25,87	JAN 24,87	810	815	830 915	2	0.1	2	75073	2	1	1	98	N
JAN 26,87	JAN 25,87	820	845	820 1610	2	2.6	2	75074	2	1	1	80	N
JAN 27,87	JAN 26,87	845	845	1245 845	2	2.2	2	75075	2	1	1	29	N
JAN 28,87	JAN 27,87	840	840	200 840	2	1.4	2	75076	2	1	1	102	N
JAN 29,87	JAN 28,87	845	840	845 840	3	3.1	2	75077	2	1	1	161	GE
JAN 30,87	JAN 29,87	820	845	820 845	2	1.3	2	75078	2	1	1	79	N
JAN 31,87	JAN 30,87	865	845	1245 845	2	0.1	2	75079	2	1	1	***	E
FEB 1,87	JAN 31,87	850	835	**** 1610	2	2.2	2	75080	2	1	1	69	N
FEB 2,87	FEB 1,87	840	840	200 840	2	2.6	2	75081	2	1	1	88	N
FEB 3,87	FEB 2,87	845	840	845 840	3	3.1	2	75082	2	1	1	74	N
FEB 4,87	FEB 3,87	835	825	835 715	2	1.3	2	75083	2	1	1	78	N
FEB 5,87	FEB 4,87	835	825	1130 1150	2	0.1	2	75084	2	1	1	88	N
FEB 6,87	FEB 5,87	830	835	2300 700	2	2.4	2	75085	2	1	1	69	N
FEB 7,87	FEB 6,87	840	830	840 1345	2	3.0	2	75086	2	1	1	74	N
FEB 8,87	FEB 7,87	840	830	840 830	2	1.8	2	75087	2	1	1	88	N
FEB 9,87	FEB 8,87	835	815	1050 700	2	10.2	2	75088	2	1	1	74	N
FEB 10,87	FEB 9,87	830	820	820 915	2	0.1	2	75089	2	1	1	81	N
FEB 11,87	FEB 10,87	835	830	1315 1430	2	0.1	2	75090	2	1	1	***	E
FEB 12,87	FEB 11,87	820	830	820 830	2	3.0	2	75091	2	1	1	81	N
FEB 13,87	FEB 12,87	835	835	835 930	2	0.1	2	75092	2	1	1	***	E
FEB 14,87	FEB 13,87	835	835	835 930	2	0.1	2	75093	2	1	1	***	E
FEB 15,87	FEB 14,87	825	830	200 645	2	0.1	2	75094	2	1	1	***	E
FEB 16,87	FEB 15,87	835	850	940 1015	2	0.1	2	75095	2	1	1	***	E
FEB 17,87	FEB 16,87	835	850	940 1015	2	0.1	2	75096	2	1	1	***	E
FEB 18,87	FEB 17,87	805	815	710 815	2	0.2	2	75097	2	1	1	***	E
FEB 19,87	FEB 18,87	805	815	710 815	2	0.2	2	75098	2	1	1	***	E
FEB 20,87	FEB 19,87	805	815	710 815	2	0.2	2	75099	2	1	1	***	E
FEB 21,87	FEB 20,87	805	815	710 815	2	0.2	2	75100	2	1	1	***	E
FEB 22,87	FEB 21,87	805	815	710 815	2	0.2	2	75101	2	1	1	***	E
FEB 23,87	FEB 22,87	805	815	710 815	2	0.2	2	75102	2	1	1	***	E
FEB 24,87	FEB 23,87	805	815	710 815	2	0.2	2	75103	2	1	1	***	E
FEB 25,87	FEB 24,87	805	815	710 815	2	0.2	2	75104	2	1	1	***	E
FEB 26,87	FEB 25,87	805	815	710 815	2	0.2	2	75105	2	1	1	***	E
FEB 27,87	FEB 26,87	805	815	710 815	2	0.2	2	75106	2	1	1	***	E
FEB 28,87	FEB 27,87	805	815	710 815	2	0.2	2	75107	2	1	1	***	E
FEB 29,87	FEB 28,87	805	815	710 815	2	0.2	2	75108	2	1	1	***	E
FEB 30,87	FEB 29,87	805	815	710 815	2	0.2	2	75109	2	1	1	***	E
FEB 31,87	FEB 30,87	805	815	710 815	2	0.2	2	75110	2	1	1	***	E
FEB 32,87	FEB 31,87	805	815	710 815	2	0.2	2	75111	2	1	1	***	E
FEB 33,87	FEB 32,87	805	815	710 815	2	0.2	2	75112	2	1	1	***	E
FEB 34,87	FEB 33,87	805	815	710 815	2	0.2	2	75113	2	1	1	***	E
FEB 35,87	FEB 34,87	805	815	710 815	2	0.2	2	75114	2	1	1	***	E
FEB 36,87	FEB 35,87	805	815	710 815	2	0.2	2	75115	2	1	1	***	E
FEB 37,87	FEB 36,87	805	815	710 815	2	0.2	2	75116	2	1	1	***	E
FEB 38,87	FEB 37,87	805	815	710 815	2	0.2	2	75117	2	1	1	***	E
FEB 39,87	FEB 38,87	805	815	710 815	2	0.2	2	75118	2	1	1	***	E
FEB 40,87	FEB 39,87	805	815	710 815	2	0.2	2	75119	2	1	1	***	E
FEB 41,87	FEB 40,87	805	815	710 815	2	0.2	2	75120	2	1	1	***	E
FEB 42,87	FEB 41,87	805	815	710 815	2	0.2	2	75121	2	1	1	***	E
FEB 43,87	FEB 42,87	805	815	710 815	2	0.2	2	75122	2	1	1	***	E
FEB 44,87	FEB 43,87	805	815	710 815	2	0.2	2	75123	2	1	1	***	E
FEB 45,87	FEB 44,87	805	815	710 815	2	0.2	2	75124	2	1	1	***	E
FEB 46,87	FEB 45,87	805	815	710 815	2	0.2	2	75125	2	1	1	***	E
FEB 47,87	FEB 46,87	805	815	710 815	2	0.2	2	75126	2	1	1	***	E
FEB 48,87	FEB 47,87	805	815	710 815	2	0.2	2	75127	2	1	1	***	E
FEB 49,87	FEB 48,87	805	815	710 815	2	0.2	2	75128	2	1	1	***	E
FEB 50,87	FEB 49,87	805	815	710 815	2	0.2	2	75129	2	1	1	***	E
FEB 51,87	FEB 50,87	805	815	710 815	2	0.2	2	75130	2	1	1	***	E
FEB 52,87	FEB 51,87	805	815	710 815	2	0.2	2	75131	2	1	1	***	E
FEB 53,87	FEB 52,87	805	815	710 815	2	0.2	2	75132	2	1	1	***	E
FEB 54,87	FEB 53,87	805	815	710 815	2	0.2	2	75133	2	1	1	***	E
FEB 55,87	FEB 54,87	805	815	710 815	2	0.2	2	75134	2	1	1	***	E
FEB 56,87	FEB 55,87	805	815	710 815	2	0.2	2	75135	2	1	1	***	E
FEB 57,87	FEB 56,87	805	815	710 815	2	0.2	2	75136	2	1	1	***	E
FEB 58,87	FEB 57,87	805	815	710 815	2	0.2	2	75137	2	1	1	***	E
FEB 59,87	FEB 58,87	805	815	710 815	2	0.2	2	75138	2	1	1	***	E
FEB 60,87	FEB 59,87	805	815	710 815	2	0.2	2	75139	2	1	1	***	E
FEB 61,87	FEB 60,87	805	815	710 815	2	0.2	2	75140	2	1	1	***	E
FEB 62,87	FEB 61,87	805	815	710 815	2	0.2	2	75141	2	1	1	***	E
FEB 63,87	FEB 62,87	805	815	710 815	2	0.2	2	75142	2	1	1	***	E
FEB 64,87	FEB 63,87	805	815	710 815	2	0.2	2	75143	2	1	1	***	E
FEB 65,87	FEB 64,87	805	815	710 815	2	0.2	2	75144	2	1	1	***	E
FEB 66,87	FEB 65,87	805	815	710 815	2	0.2	2	75145	2	1	1	***	E
FEB 67,87	FEB 66,87	805	815	710 815	2	0.2	2	75146	2	1	1	***	E
FEB 68,87	FEB 67,87	805	815	710 815	2	0.2	2	75147	2	1	1	***	E
FEB 69,87	FEB 68,87	805	815	710 815	2	0.2	2	75148	2	1	1	***	E
FEB 70,87	FEB 69,87	805	815	710 815	2	0.2	2	75149	2	1	1	***	E
FEB 71,87	FEB 70,87	805	815	710 815	2	0.2	2	75150	2	1	1	***	E
FEB 72,87	FEB 71,87	805	815	710 815	2	0.2	2	75151	2	1	1	***	E
FEB 73,87	FEB 72,87	805	815	710 815	2	0.							

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 2

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PAGE : 3

[illegible]

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEN./7011

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(HH)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-HOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
MAR 2-87	MAR 1-87	820 820	820 1740	3	11.8	2	75093	2	1	U 96	G
MAR 3-87	MAR 2-87	825 850	825 850	2	4.7	2	75094	2	1	U	G
MAR 4-87	MAR 3-87	825 835	855 1600	2	0.7	2	75095	2	1	76	E N
MAR 9-87	MAR 8-87	815 825	700 825	2	0.1	2	75096	2	1	13	E N
MAR 10-87	MAR 9-87	830 830	****	2	0.1	2	75097	2	1	****	E N
MAR 16-87	MAR 15-87	825 825	650 825	2	0.4	2	75098	2	1	136	E N
MAR 17-87	MAR 16-87	830 835	830 835	2	9.2	2	75099	2	1	67	E N
MAR 18-87	MAR 17-87	840 830	840 1500	2	0.1	2	75100	2	1	****	E N
MAR 20-87	MAR 19-87	830 835	2030 600	2	2.2	2	75101	2	1	87	E N
MAR 21-87	MAR 20-87	840 835	30 835	3	1.5	2	75102	2	1	126	E N
MAR 22-87	MAR 21-87	840 815	840 1445	1	1.4	1	75103	2	1	106	G
MAR 26-87	MAR 25-87	825 830	500 830	1	2.1	1	75105	2	1	99	E N
MAR 27-87	MAR 26-87	835 830	835 400	1	5.8	1	75106	2	1	103	E N
MAR 28-87	MAR 27-87	835 805	1810 1820	1	0.1	1	75107	2	1	****	E N
MAR 29-87	MAR 28-87	810 830	850 1025	1	0.1	1	75108	2	1	****	E N
MAR 31-87	MAR 30-87	825 825	300 715	1	0.8	2	75109	2	1	122	E N
APR 1-87	MAR 31-87	830 825	1825 300	1	6.8	1	75110	2	1	73	C
APR 2-87	APR 1-87	830 825	2025 2045	2	0.1	2	75111	2	1	****	E N
APR 3-87	APR 2-87	830 835	1635 840	3	4.1	2	75112	2	1	95	E N
APR 5-87	APR 4-87	840 835	200 840	1	1.0	1	75113	2	1	92	E N
APR 6-87	APR 5-87	840 720	840 1500	1	12.0	1	75114	2	1	102	E N
APR 7-87	APR 6-87	725 835	200 835	1	1.1	1	75115	2	1	82	HN
APR 8-87	APR 7-87	840 810	840 745	3	7.0	1	75116	2	1	88	HN
APR 9-87	APR 8-87	815 810	1300 1325	1	0.1	1	75117	2	1	****	E N
APR 18-87	APR 17-87	835 830	****	1	0.2	1	75118	2	1	62	EJ
APR 22-87	APR 21-87	830 830	****	1	0.1	1	75119	2	1	****	EJ
APR 24-87	APR 23-87	805 835	915 630	1	14.6	1	75121	2	1	100	C
APR 29-87	APR 28-87	840 815	2100 815	2	2.6	1	75122	2	1	143	HN
APR 30-87	APR 29-87	820 805	****	5	10.6	1	75123	2	1	103	HN
MAY 1-87	APR 30-87	805 815	1000 1300	1	3.8	1	75124	2	1	97	HN
MAY 6-87	MAY 5-87	815 835	1830 835	1	3.4	1	75125	2	1	56	HN
MAY 7-87	MAY 6-87	840 825	100 500	1	0.8	1	75126	2	1	97	HN
MAY 10-87	MAY 9-87	800 835	815 1300	1	2.2	1	75127	2	1	72	HN
MAY 12-87	MAY 11-87	815 900	545 730	1	11.8	1	75128	2	1	96	HN
MAY 15-87	MAY 14-87	755 830	400 730	1	7.2	1	75129	2	1	103	HN
MAY 16-87	MAY 15-87	835 815	1005 1015	1	0.1	1	75130	2	1	****	E N
MAY 17-87	MAY 16-87	820 800	1740 1755	1	0.1	1	75131	2	1	****	E N
MAY 18-87	MAY 17-87	805 800	630 655	1	0.1	1	75132	2	1	****	E N
MAY 23-87	MAY 22-87	800 835	1905 200	1	3.1	1	75134	2	1	96	A
MAY 24-87	MAY 23-87	840 840	1315 1440	1	17.8	1	75135	2	1	102	A

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 2-87	MAR 1-87	732.0	8.0	*****	4.83	*****	0.0308	0.50	0.12
MAR 3-87	MAR 2-87	230.0	28.5	*****	4.11	*****	0.0945	1.55	0.57
MAR 4-87	MAR 3-87	6.0	*****	*****	*****	*****	*****	*****	*****
MAR 9-87	MAR 8-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 10-87	MAR 9-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 16-87	MAR 15-87	35.0	9.0	*****	5.19	*****	0.0238	0.80	0.36
MAR 17-87	MAR 16-87	400.0	9.0	*****	4.73	*****	0.0339	0.80	0.18
MAR 17-87	MAR 17-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 18-87	MAR 17-87	124.0	12.0	*****	4.72	*****	0.0368	1.10	0.35
MAR 20-87	MAR 19-87	122.0	11.0	*****	4.74	*****	0.0357	1.00	0.20
MAR 21-87	MAR 20-87	96.0	9.3	*****	4.69	*****	0.0365	0.65	0.16
MAR 26-87	MAR 25-87	134.0	44.0	*****	3.99	*****	0.1340	3.70	1.19
MAR 27-87	MAR 26-87	364.0	49.0	*****	3.91	*****	0.1550	4.35	0.97
MAR 28-87	MAR 27-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 29-87	MAR 28-87	*****	*****	*****	*****	*****	*****	*****	*****
MAR 31-87	MAR 30-87	63.0	5.0	*****	5.15	*****	0.0232	0.45	0.09
APR 1-87	MAR 31-87	319.0	10.0	*****	4.63	*****	0.0421	0.80	0.23
APR 2-87	APR 1-87	*****	*****	*****	*****	*****	*****	*****	*****
APR 3-87	APR 2-87	250.0	42.0	*****	3.98	*****	0.1330	2.55	1.18
APR 5-87	APR 4-87	59.0	31.0	*****	4.10	*****	0.1030	2.15	0.73
APR 6-87	APR 5-87	785.0	4.0	*****	5.09	*****	0.0243	0.30	0.08
APR 7-87	APR 6-87	58.0	3.0	*****	5.70	*****	0.0171	0.45	0.06
APR 8-87	APR 7-87	395.0	2.0	*****	5.52	*****	0.0190	0.15	0.04
APR 9-87	APR 8-87	*****	*****	*****	*****	*****	*****	*****	*****
APR 18-87	APR 17-87	8.0	*****	*****	*****	*****	*****	*****	*****
APR 22-87	APR 21-87	*****	*****	*****	*****	*****	*****	*****	*****
APR 24-87	APR 23-87	938.0	52.0	*****	3.94	*****	0.1370	5.05	0.83
APR 29-87	APR 28-87	240.0	10.0	*****	4.66	*****	0.0393	1.00	0.35
APR 30-87	APR 29-87	700.0	12.5	*****	7.06	*****	0.0216	2.40	0.16
MAY 1-87	APR 30-87	237.0	16.5	*****	7.06	*****	0.0158	0.60	0.09
MAY 6-87	MAY 5-87	213.0	5.0	*****	5.63	*****	0.0300	0.75	0.19
MAY 7-87	MAY 6-87	29.0	7.0	*****	7.62	*****	0.0330	4.95	1.17
MAY 10-87	MAY 9-87	102.0	33.5	*****	7.06	*****	0.0330	4.95	1.17
MAY 12-87	MAY 11-87	729.0	70.5	*****	4.05	*****	0.0985	3.70	0.70
MAY 15-87	MAY 14-87	478.0	41.0	*****	*****	*****	*****	*****	*****
MAY 16-87	MAY 15-87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 17-87	MAY 16-87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 18-87	MAY 17-87	*****	*****	*****	*****	*****	*****	*****	*****
MAY 23-87	MAY 22-87	191.0	87.6	*****	3.74	*****	0.2270	10.50	1.33
MAY 24-87	MAY 23-87	1166.0	48.1	*****	4.05	*****	0.1330	5.10	0.90

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAR 2:87	MAR 1:87	<T	0.10	<T	0.020	<T	0.005	0.0168
MAR 3:87	MAR 2:87	<T	0.11	<T	0.025	0.075	0.050	0.0776
MAR 4:87	MAR 3:87	*****	*****	*****	*****	*****	*****	*****
MAR 9:87	MAR 8:87	*****	*****	*****	*****	*****	*****	*****
MAR 10:87	MAR 9:87	*****	0.25	!IS	!IS	!IS	!IS	0.0065
MAR 16:87	MAR 15:87	!IS	0.07	<T	0.020	0.045	0.080	0.0186
MAR 17:87	MAR 16:87	<T	0.10	<T	<T	0.005	0.260	0.0191
MAR 18:87	MAR 17:87	*****	*****	*****	*****	*****	*****	*****
MAR 20:87	MAR 19:87	0.16	0.25	<T	0.025	0.130	0.200	0.0182
MAR 21:87	MAR 20:87	<T	0.06	<T	0.010	0.155	0.100	0.0204
MAR 22:87	MAR 21:87	<T	0.11	<T	0.015	0.035	0.395	0.1023
MAR 26:87	MAR 25:87	0.44	0.28	0.065	0.045	0.115	0.420	0.1230
MAR 27:87	MAR 26:87	0.12	0.24	<T	0.010	0.025	0.050	0.1230
MAR 28:87	MAR 27:87	*****	*****	*****	*****	*****	*****	*****
MAR 29:87	MAR 28:87	*****	*****	*****	*****	*****	*****	*****
MAR 31:87	MAR 30:87	<T	0.21	<T	0.005	0.125	0.035	0.0071
APR 1:87	MAR 31:87	<T	0.01	<T	0.005	0.015	0.070	0.0234
APR 2:87	APR 1:87	<M	0.10	<T	0.010	<T	0.370	0.1047
APR 3:87	APR 2:87	<T	0.04	0.10	0.015	0.010	0.015	0.0794
APR 5:87	APR 4:87	0.14	0.34	0.035	0.030	0.130	0.005	0.0081
APR 6:87	APR 5:87	<T	0.02	<T	0.005	<T	0.005	0.0020
APR 7:87	APR 6:87	<T	0.09	<T	0.025	0.125	0.045	UG
APR 8:87	APR 7:87	<M	0.01	<M	0.005	<T	0.055	UG
APR 9:87	APR 8:87	*****	*****	*****	*****	*****	*****	*****
APR 18:87	APR 17:87	*****	*****	*****	*****	*****	*****	*****
APR 22:87	APR 21:87	*****	*****	*****	*****	*****	*****	*****
APR 24:87	APR 23:87	0.32	0.18	0.050	0.015	0.050	0.565	0.1148
APR 29:87	APR 28:87	<T	0.06	<T	0.010	0.095	0.100	0.0015
APR 30:87	APR 29:87	<T	0.08	<T	0.005	0.050	0.180	0.00219
MAY 1:87	APR 30:87	1.32	0.14	0.090	0.020	0.085	0.710	UG
MAY 6:87	MAY 5:87	0.34	0.07	0.025	0.015	0.030	0.050	0.0023
MAY 7:87	MAY 6:87	0.30	0.06	0.025	0.005	0.030	0.115	UG
MAY 10:87	MAY 9:87	1.70	0.26	0.360	0.300	0.140	1.540	UG
MAY 12:87	MAY 11:87	2.26	0.37	0.395	0.300	0.075	1.850	0.0832
MAY 15:87	MAY 14:87	0.26	0.15	0.045	0.005	0.050	0.415	0.0891
MAY 16:87	MAY 15:87	*****	*****	*****	*****	*****	*****	*****
MAY 17:87	MAY 16:87	*****	*****	*****	*****	*****	*****	*****
MAY 18:87	MAY 17:87	*****	*****	*****	*****	*****	*****	*****
MAY 23:87	MAY 22:87	0.46	0.46	0.075	0.130	0.495	1.050	0.1820
MAY 24:87	MAY 23:87	0.16	0.21	0.025	0.045	0.145	0.795	0.0891

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APTOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFECTI- ENCY (%)	COMMENTS FIELD OFFICE
				03-COMP/04-OTHER		02-NIPHER		02-APIOS	01-HOE		
				01-STD.				03-SPECIAL			
MAY 25-87	MAY 24-87	845	820	1905	200	1	75137	2	1	85	E N
MAY 27-87	MAY 26-87	815	825	2115	200	1	75138	2	1	85	
MAY 28-87	MAY 27-87	830	825	1610	730	1	75139	2	1	86	
MAY 29-87	MAY 28-87	835	825	1800	2000	1	75140	2	1	106	C
MAY 30-87	MAY 29-87	835	830	1825	2300	1	75141	2	1	73	
MAY 31-87	MAY 30-87	835	825	1810	1813	1	75142	2	1	103	E N
JUN 1-87	MAY 31-87	830	850	1350	1500	1	75143	2	1	103	
JUN 2-87	JUN 1-87	900	805	1010	1030	1	75144	2	1	99	E N
JUN 3-87	JUN 2-87	810	825	1305	1515	1	75145	2	1	101	
JUN 4-87	JUN 3-87	835	815	1550	300	1	75146	2	1	83	
JUN 5-87	JUN 4-87	825	825	1400	2100	1	75147	2	1	102	
JUN 6-87	JUN 5-87	830	840	615	755	1	75148	2	1	103	E N
JUN 7-87	JUN 6-87	845	850	1920	500	1	75149	2	1	94	
JUN 8-87	JUN 7-87	830	825	1930	825	1	75150	2	1	107	C X
JUL 3-87	JUL 2-87	830	845	125	220	1	75151	2	1	107	C
JUL 4-87	JUL 3-87	845	815	1050	1115	1	75152	2	1	107	C
JUL 5-87	JUL 4-87	845	805	1600	1805	1	75153	2	1	107	C
JUL 6-87	JUL 5-87	855	820	1620	1710	1	75154	2	1	107	C
JUL 7-87	JUL 6-87	855	835	2015	2110	1	75155	2	1	107	C
JUL 8-87	JUL 7-87	845	835	310	415	1	75156	2	1	107	C
JUL 9-87	JUL 8-87	845	850	1820	1830	1	75157	2	1	107	C
JUL 10-87	JUL 9-87	845	850	1820	1830	1	75158	2	1	107	C
JUL 11-87	JUL 10-87	845	835	1745	2100	1	75159	2	1	107	C
JUL 12-87	JUL 11-87	845	835	1745	2100	1	75160	2	1	107	C
JUL 13-87	JUL 12-87	845	835	1745	2100	1	75161	2	1	107	C
JUL 14-87	JUL 13-87	845	835	1745	2100	1	75162	2	1	107	C
JUL 15-87	JUL 14-87	845	835	1745	2100	1	75163	2	1	107	C
JUL 16-87	JUL 15-87	845	835	1745	2100	1	75164	2	1	107	C
JUL 17-87	JUL 16-87	845	835	1745	2100	1	75165	2	1	107	C
JUL 18-87	JUL 17-87	845	835	1745	2100	1	75166	2	1	107	C
JUL 19-87	JUL 18-87	845	835	1745	2100	1	75167	2	1	107	C
JUL 20-87	JUL 19-87	845	835	1745	2100	1	75168	2	1	107	C
JUL 21-87	JUL 20-87	845	835	1745	2100	1	75169	2	1	107	C
JUL 22-87	JUL 21-87	845	835	1745	2100	1	75170	2	1	107	C
JUL 23-87	JUL 22-87	845	835	1745	2100	1	75171	2	1	107	C
JUL 24-87	JUL 23-87	845	835	1745	2100	1	75172	2	1	107	C
JUL 25-87	JUL 24-87	845	835	1745	2100	1	75173	2	1	107	C
JUL 26-87	JUL 25-87	845	835	1745	2100	1	75174	2	1	107	C
JUL 27-87	JUL 26-87	845	835	1745	2100	1	75175	2	1	107	C
JUL 28-87	JUL 27-87	845	835	1745	2100	1	75176	2	1	107	C
JUL 29-87	JUL 28-87	845	835	1745	2100	1	75177	2	1	107	C
JUL 30-87	JUL 29-87	845	835	1745	2100	1	75178	2	1	107	C
AUG 31-87	AUG 30-87	845	835	1745	2100	1	75179	2	1	107	C
AUG 32-87	AUG 31-87	845	835	1745	2100	1	75180	2	1	107	C
AUG 33-87	AUG 32-87	845	835	1745	2100	1	75181	2	1	107	C
AUG 34-87	AUG 33-87	845	835	1745	2100	1	75182	2	1	107	C
AUG 35-87	AUG 34-87	845	835	1745	2100	1	75183	2	1	107	C
AUG 36-87	AUG 35-87	845	835	1745	2100	1	75184	2	1	107	C
AUG 37-87	AUG 36-87	845	835	1745	2100	1	75185	2	1	107	C
AUG 38-87	AUG 37-87	845	835	1745	2100	1	75186	2	1	107	C
AUG 39-87	AUG 38-87	845	835	1745	2100	1	75187	2	1	107	C
AUG 40-87	AUG 39-87	845	835	1745	2100	1	75188	2	1	107	C
AUG 41-87	AUG 40-87	845	835	1745	2100	1	75189	2	1	107	C
AUG 42-87	AUG 41-87	845	835	1745	2100	1	75190	2	1	107	C
AUG 43-87	AUG 42-87	845	835	1745	2100	1	75191	2	1	107	C
AUG 44-87	AUG 43-87	845	835	1745	2100	1	75192	2	1	107	C
AUG 45-87	AUG 44-87	845	835	1745	2100	1	75193	2	1	107	C
AUG 46-87	AUG 45-87	845	835	1745	2100	1	75194	2	1	107	C
AUG 47-87	AUG 46-87	845	835	1745	2100	1	75195	2	1	107	C
AUG 48-87	AUG 47-87	845	835	1745	2100	1	75196	2	1	107	C
AUG 49-87	AUG 48-87	845	835	1745	2100	1	75197	2	1	107	C
AUG 50-87	AUG 49-87	845	835	1745	2100	1	75198	2	1	107	C
AUG 51-87	AUG 50-87	845	835	1745	2100	1	75199	2	1	107	C
AUG 52-87	AUG 51-87	845	835	1745	2100	1	75200	2	1	107	C
AUG 53-87	AUG 52-87	845	835	1745	2100	1	75201	2	1	107	C
AUG 54-87	AUG 53-87	845	835	1745	2100	1	75202	2	1	107	C
AUG 55-87	AUG 54-87	845	835	1745	2100	1	75203	2	1	107	C
AUG 56-87	AUG 55-87	845	835	1745	2100	1	75204	2	1	107	C
AUG 57-87	AUG 56-87	845	835	1745	2100	1	75205	2	1	107	C
AUG 58-87	AUG 57-87	845	835	1745	2100	1	75206	2	1	107	C
AUG 59-87	AUG 58-87	845	835	1745	2100	1	75207	2	1	107	C
AUG 60-87	AUG 59-87	845	835	1745	2100	1	75208	2	1	107	C
AUG 61-87	AUG 60-87	845	835	1745	2100	1	75209	2	1	107	C
AUG 62-87	AUG 61-87	845	835	1745	2100	1	75210	2	1	107	C
AUG 63-87	AUG 62-87	845	835	1745	2100	1	75211	2	1	107	C
AUG 64-87	AUG 63-87	845	835	1745	2100	1	75212	2	1	107	C
AUG 65-87	AUG 64-87	845	835	1745	2100	1	75213	2	1	107	C
AUG 66-87	AUG 65-87	845	835	1745	2100	1	75214	2	1	107	C
AUG 67-87	AUG 66-87	845	835	1745	2100	1	75215	2	1	107	C
AUG 68-87	AUG 67-87	845	835	1745	2100	1	75216	2	1	107	C
AUG 69-87	AUG 68-87	845	835	1745	2100	1	75217	2	1	107	C
AUG 70-87	AUG 69-87	845	835	1745	2100	1	75218	2	1	107	C
AUG 71-87	AUG 70-87	845	835	1745	2100	1	75219	2	1	107	C
AUG 72-87	AUG 71-87	845	835	1745	2100	1	75220	2	1	107	C
AUG 73-87	AUG 72-87	845	835	1745	2100	1	75221	2	1	107	C
AUG 74-87	AUG 73-87	845	835	1745	2100	1	75222	2	1	107	C
AUG 75-87	AUG 74-87	845	835	1745	2100	1	75223	2	1	107	C
AUG 76-87	AUG 75-87	845	835	1745	2100	1	75224	2	1	107	C
AUG 77-87	AUG 76-87	845	835	1745	2100	1	75225	2	1	107	C
AUG 78-87	AUG 77-87	845	835	1745	2100	1	75226	2	1	107	C
AUG 79-87	AUG 78-87	845	835	1745	2100	1	75227	2	1	107	C
AUG 80-87	AUG 79-87	845	835	1745	2100	1	75228	2	1	107	C
AUG 81-87	AUG 80-87	845	835	1745	2100	1	75229	2	1	107	C
AUG 82-87	AUG 81-87	845	835	1745	2100	1	75230	2	1	107	C
AUG 83-87	AUG 82-87	845	835	1745	2100	1	75231	2	1	107	C
AUG 84-87	AUG 83-87	845	835	1745	2100	1	75232	2	1	107	C
AUG 85-87	AUG 84-87	845	835	1745	2100	1	75233	2	1	107	C
AUG 86-87	AUG 85-87	845	835	1745	2100	1	75234	2	1	107	C
AUG 87-87	AUG 86-87	845	835	1745	2100	1	75235	2	1	107	C
AUG 88-87	AUG 87-87	845	835	1745	2100	1	75236	2	1	107	C
AUG 89-87	AUG 88-87	845	835	1745	2100	1	75237	2	1	107	C
AUG 90-87	AUG 89-87	845	835	1745	2100	1	75238	2	1	107	C
AUG 91-87	AUG 90-87	845	835	1745	2100	1	75239	2	1	107	C
AUG 92-87	AUG 91-87	845	835	1745	2100	1	75240	2	1	107	C
AUG 93-87	AUG 92-87	845	835	1745	2100	1	75241	2	1	107	C
AUG 94-87	AUG 93-87	845	835	1745	2100	1	75242	2	1	107	C
AUG 95-87	AUG 94-87	845	835	1745	2100	1	75243	2	1	107	C
AUG 96-87	AUG 95-87	845	835	1745	2100	1	75244	2	1	107	C
AUG 97-87	AUG 96-87	845	835	1745	2100	1	75245	2	1	107	C
AUG 98-87	AUG 97-87	845	835	1745	2100	1	75246	2	1	107	C
AUG 99-87	AUG 98-87	845	835	1745	2100	1	75247	2	1	107	C
AUG 100-87	AUG 99-87	845	835	1745	2100	1	75248	2	1	107	C
AUG 101-87	AUG 100-87	845	835	1745	2100	1	75249	2	1	107	C
AUG 102-87	AUG 101-87	845	835								

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 8

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-STD.		02-APIOS	01-HOE		
				02-SNOW		02-NIPHER		03-SPECIAL	03-AES		
				03-COMP/04-OTHER							
AUG 21.87	AUG 20.87	855 825	1835 1950	1	8.2	1	75193	2	1	102	HCM
AUG 22.87	AUG 21.87	830 820	500 600	1	0.1	1	75194	2	1	***	E N
AUG 23.87	AUG 22.87	825 835	1250 1750	1	8.4	1	75195	2	1	101	HCM
AUG 24.87	AUG 23.87	825 905	1250 1255	1	0.1	1	75196	2	1	***	E N
AUG 25.87	AUG 24.87	820 820	500 820	1	5.4	1	75197	2	1	102	N
AUG 26.87	AUG 25.87	825 830	825 1245	1	1.0	1	75198	2	1	39	N
AUG 27.87	AUG 26.87	825 830	825 1245	1	7.6	1	75199	2	1	102	N
SEP 1.87	AUG 31.87	835 745	1945 2200	1	0.3	1	75200	2	1	***	E N
SEP 2.87	SEP 1.87	750 825	2130 2200	1	0.6	1	75201	2	1	87	N
SEP 3.87	SEP 2.87	830 820	510 820	1	0.5	1	75202	2	1	***	E N
SEP 4.87	SEP 3.87	825 845	820 1045	1	0.2	1	75203	2	1	67	N
SEP 5.87	SEP 4.87	850 835	1815 500	1	16.8	1	75204	2	1	66	N
SEP 6.87	SEP 5.87	840 815	840 815	1	1.2	1	75205	2	1	70	N
SEP 7.87	SEP 6.87	825 815	825 1330	1	0.6	1	75206	2	1	108	N
SEP 8.87	SEP 7.87	815 825	530 825	1	4.4	1	75207	2	1	80	N
SEP 9.87	SEP 8.87	830 840	830 840	1	31.4	1	75208	2	1	27	NN
SEP 10.87	SEP 9.87	850 825	850 200	1	22.8	1	75210	2	1	***	E
SEP 11.87	SEP 10.87	825 810	1805 1815	1	0.1	1	75211	2	1	89	N
SEP 12.87	SEP 11.87	830 815	600	1	5.2	1	75213	2	1	102	N
SEP 13.87	SEP 12.87	835 845	1005 1430	1	0.2	1	75214	2	1	***	E
SEP 14.87	SEP 13.87	825 830	2135 200	1	4.4	1	75215	2	1	93	A
SEP 15.87	SEP 14.87	830 830	1345 1515	1	4.2	1	75216	2	1	58	E
SEP 16.87	SEP 15.87	825 830	1325 1330	1	0.1	1	75217	2	1	***	E
SEP 17.87	SEP 16.87	820 820	540 730	1	2.9	1	75218	2	1	97	N
SEP 18.87	SEP 17.87	830 830	1600 ***	1	10.2	1	75220	2	1	98	N
SEP 19.87	SEP 18.87	840 835	1015 1400	1	0.2	1	75221	2	1	***	E
SEP 20.87	SEP 19.87	845 830	2055 600	1	4.6	1	75222	2	1	96	X
SEP 21.87	SEP 20.87	835 835	1740 835	1	13.0	1	75223	2	1	97	C
SEP 22.87	SEP 21.87	840 755	***	3	***	2	75224	2	1	***	X
SEP 23.87	SEP 22.87	810 810	825 915	1	0.1	1	75226	2	1	***	E N
SEP 24.87	SEP 23.87	815 840	1810 2100	1	3.8	1	75227	2	1	84	HCM
SEP 25.87	SEP 24.87	830 750	210 215	1	0.1	1	75228	2	1	***	E N
SEP 26.87	SEP 25.87	830 820	1815 600	1	15.0	1	75229	2	1	101	N
SEP 27.87	SEP 26.87	830 850	1240 2000	1	1.2	1	75230	2	1	59	H
SEP 28.87	SEP 27.87	855 840	400 630	3	1.2	2	75231	2	1	97	N
SEP 29.87	SEP 28.87	855 845	1300 1500	1	***	2	75232	2	1	***	N
SEP 30.87	SEP 29.87	855 830	400 600	1	11.8	1	75233	2	1	100	H
SEP 31.87	SEP 30.87	800 800	940 1430	3	0.2	1	75234	2	1	***	E
SEP 32.87	SEP 31.87	830 835	1835 835	1	33.8	1	75235	2	1	104	HCM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AERO/CHEM./7011

PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH6.3 MG/L	TOTAL H+ GRAM MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 21-87	AUG 20-87	537.0	6.5	*****	UG	7.24	0.0148	0.90	0.19
AUG 22-87	AUG 21-87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 23-87	AUG 22-87	549.0	14.0	*****	4.60	*****	0.0478	1.60	0.15
AUG 26-87	AUG 25-87	*****	*****	*****	*****	*****	*****	*****	*****
AUG 29-87	AUG 28-87	356.0	8.5	*****	4.89	*****	0.0329	0.75	0.17
AUG 30-87	AUG 29-87	255.0	29.0	*****	5.27	*****	0.0221	0.50	0.10
SEP 1-87	AUG 31-87	499.0	5.0	*****	4.21	*****	0.0856	2.95	0.29
SEP 2-87	SEP 1-87	*****	*****	*****	*****	*****	*****	*****	*****
SEP 7-87	SEP 6-87	28.0	35.0	*****	4.23	*****	0.0875	4.30	0.75
SEP 8-87	SEP 7-87	*****	*****	*****	*****	*****	*****	*****	*****
SEP 9-87	SEP 8-87	724.0	7.5	*****	*****	*****	*****	*****	*****
SEP 10-87	SEP 9-87	51.0	23.5	*****	4.50	*****	0.0568	0.60	0.13
SEP 11-87	SEP 10-87	27.0	29.5	*****	4.21	*****	0.0852	2.55	0.67
SEP 12-87	SEP 11-87	305.0	*****	*****	*****	*****	*****	3.50	0.30
SEP 13-87	SEP 12-87	1630.0	21.0	*****	*****	*****	*****	*****	*****
SEP 14-87	SEP 13-87	409.0	3.0	*****	4.31	*****	0.0645	1.95	0.27
SEP 17-87	SEP 16-87	*****	*****	*****	5.21	*****	0.0201	0.30	<T
SEP 20-87	SEP 19-87	23.0	23.0	*****	4.27	*****	0.0274	1.80	0.33
SEP 21-87	SEP 20-87	343.0	4.5	*****	5.11	*****	0.0227	0.35	0.07
SEP 22-87	SEP 21-87	*****	*****	*****	*****	*****	*****	*****	*****
SEP 24-87	SEP 23-87	265.0	11.0	*****	4.82	*****	0.0324	1.60	0.21
SEP 26-87	SEP 25-87	247.0	12.0	*****	7.06	*****	0.0133	2.05	0.16
SEP 27-87	SEP 26-87	30.0	6.0	*****	4.87	*****	0.0292	0.95	0.10
SEP 29-87	SEP 28-87	*****	*****	*****	*****	*****	*****	*****	*****
SEP 30-87	SEP 29-87	182.0	*****	*****	5.66	*****	0.0171	1.70	<W
OCT 1-87	SEP 30-87	646.0	15.0	*****	4.59	*****	0.0471	0.0471	0.30
OCT 2-87	SEP 30-87	182.0	*****	*****	*****	*****	*****	*****	*****
OCT 3-87	OCT 2-87	*****	*****	*****	*****	*****	*****	*****	*****
OCT 4-87	OCT 3-87	284.0	*****	*****	*****	*****	*****	*****	*****
OCT 5-87	OCT 4-87	813.0	*****	*****	*****	*****	*****	*****	*****
OCT 6-87	OCT 5-87	2251.0	*****	*****	*****	*****	*****	*****	*****
OCT 8-87	OCT 7-87	*****	*****	*****	*****	*****	*****	*****	*****
OCT 9-87	OCT 8-87	206.0	3.0	*****	5.81	*****	0.0195	0.85	0.15
OCT 18-87	OCT 17-87	*****	*****	*****	*****	*****	*****	*****	*****
OCT 21-87	OCT 20-87	972.0	40.0	*****	4.05	*****	0.1240	2.80	0.88
OCT 22-87	OCT 21-87	46.0	13.0	*****	5.81	*****	0.0211	2.80	0.42
OCT 23-87	OCT 22-87	75.0	38.0	*****	4.05	*****	0.1170	1.25	1.29
OCT 24-87	OCT 23-87	25.0	86.0	*****	3.94	*****	0.1610	3.80	2.42
OCT 25-87	OCT 24-87	760.0	52.0	*****	4.08	*****	0.1310	3.65	0.87
OCT 26-87	OCT 25-87	*****	*****	*****	*****	*****	*****	*****	*****
OCT 28-87	OCT 27-87	2271.0	3.5	*****	4.99	*****	0.0264	0.55	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AERO/CHEM./7011

PAGE : 12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H ⁺ LAB MG/L
AUG 21,87	AUG 20,87	0.54	<M	0.01	0.030	<T	0.015	UR
AUG 22,87	AUG 21,87	*****	*****	0.055	*****	*****	*****	*****
AUG 23,87	AUG 22,87	0.30	<T	0.020	<T	0.020	0.030	0.0251
AUG 26,87	AUG 25,87	*****	*****	*****	*****	*****	*****	*****
AUG 29,87	AUG 28,87	0.12	<M	0.010	0.025	0.025	0.055	0.0129
AUG 30,87	AUG 29,87	0.10	0.10	<T	0.010	0.110	0.015	0.0054
SEP 1,87	AUG 31,87	0.12	<M	0.010	<T	0.020	0.005	0.0617
SEP 2,87	SEP 1,87	*****	*****	*****	*****	*****	*****	*****
SEP 7,87	SEP 6,87	*****	0.12	*****	*****	*****	*****	0.0569
SEP 8,87	SEP 7,87	*****	*****	*****	*****	*****	*****	*****
SEP 9,87	SEP 8,87	*****	<T	0.03	*****	*****	*****	*****
SEP 10,87	SEP 9,87	0.24	*****	0.020	0.030	0.040	0.625	0.0316
SEP 11,87	SEP 10,87	*****	0.06	*****	*****	*****	0.400	0.0617
SEP 12,87	SEP 11,87	*****	*****	*****	*****	*****	*****	*****
SEP 13,87	SEP 12,87	*****	0.06	*****	*****	*****	*****	*****
SEP 14,87	SEP 13,87	0.02	<M	0.005	<M	0.005	0.010	0.0690
SEP 17,87	SEP 16,87	*****	*****	*****	*****	*****	*****	0.0062
SEP 20,87	SEP 19,87	*****	0.15	*****	*****	*****	*****	*****
SEP 21,87	SEP 20,87	<M	0.02	<M	0.005	0.030	0.005	0.0537
SEP 22,87	SEP 21,87	*****	*****	0.005	*****	*****	0.020	0.0078
SEP 24,87	SEP 23,87	0.20	<T	0.010	0.045	0.035	0.275	0.0151
SEP 26,87	SEP 25,87	1.38	<T	0.105	0.055	0.045	0.345	0.0001
SEP 27,87	SEP 26,87	*****	0.09	*****	*****	*****	0.070	0.0135
SEP 29,87	SEP 28,87	*****	0.04	*****	*****	*****	*****	*****
SEP 30,87	SEP 29,87	0.22	0.07	0.035	0.025	0.045	0.400	0.0022
OCT 1,87	SEP 30,87	<T	0.04	<T	0.020	0.010	0.375	0.0257
OCT 2,87	OCT 1,87	*****	*****	*****	*****	*****	*****	*****
OCT 3,87	OCT 2,87	*****	*****	*****	*****	*****	*****	*****
OCT 4,87	OCT 3,87	*****	*****	*****	*****	*****	*****	*****
OCT 5,87	OCT 4,87	*****	*****	*****	*****	*****	*****	*****
OCT 8,87	OCT 7,87	*****	*****	*****	*****	*****	*****	*****
OCT 9,87	OCT 8,87	0.18	0.11	0.020	0.005	0.015	0.185	0.0015
OCT 18,87	OCT 17,87	*****	*****	*****	*****	*****	*****	*****
OCT 21,87	OCT 20,87	0.14	0.11	0.010	0.020	0.025	0.315	0.0091
OCT 22,87	OCT 21,87	0.28	0.15	0.020	0.035	0.035	1.150	0.0015
OCT 23,87	OCT 22,87	0.34	0.17	0.030	0.065	0.045	0.115	0.0091
OCT 24,87	OCT 23,87	0.74	0.33	0.120	0.065	0.045	*****	0.1148
OCT 25,87	OCT 24,87	<T	0.08	<T	0.025	0.030	0.280	0.0832
OCT 26,87	OCT 25,87	*****	*****	*****	*****	*****	*****	*****
OCT 28,87	OCT 27,87	<M	0.02	<M	0.005	0.010	0.010	0.0102

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROHEM./7011

PAGE : 13

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE	GAUGE DEPTH(HH)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFECT- ENCY	COMMENTS FIELD OFFICE
				01-RAIN		01-STD.		02-APIOS			
				02-SHOW		02-NIPHER		03-SPECIAL			
				03-COMP/04-OTHER							
OCT 29+87	OCT 28+87	845 835	845 2100	1	6.3	1	75237	2	1	62	
OCT 30+87	OCT 29+87	845 830	845 2100	1	6.3	1	75238	2	1	62	
OCT 31+87	OCT 30+87	835 715	835 2100	1	2.6	1	75239	2	1	100	E N
NOV 4+87	NOV 3+87	825 830	840 200	1	2.0	1	75241	2	1	83	A
NOV 5+87	NOV 4+87	840 825	830 615	1	4.5	1	75242	2	1	99	
NOV 6+87	NOV 5+87	835 835	830 810	2	10.3	2	75243	2	1	54	I HCH
NOV 7+87	NOV 6+87	840 825	900 1400	2	0.2	2	75244	2	1	U	
NOV 8+87	NOV 7+87	830 830	930 1300	2	0.1	2	75245	2	1	100	E N
NOV 9+87	NOV 8+87	835 810	2100 715	1	12.8	1	75246	2	1	100	E N
NOV 11+87	NOV 10+87	825 825	900 1130	2	0.1	2	75247	2	1	100	E N
NOV 13+87	NOV 12+87	820 825	600 700	2	0.1	2	75248	2	1	100	E N
NOV 14+87	NOV 13+87	835 830	1330 1415	1	0.1	1	75249	2	1	100	E N
NOV 15+87	NOV 14+87	835 825	1335 1430	1	0.6	1	75250	2	1	100	E N
NOV 18+87	NOV 17+87	830 830	2235 400	1	13.8	1	75251	2	1	98	E N
NOV 19+87	NOV 18+87	840 830	1100 1215	1	1.8	1	75252	2	1	77	
NOV 21+87	NOV 20+87	815 820	1455 2200	3	5.8	2	75253	2	1	36	
NOV 22+87	NOV 21+87	830 820	1030 820	2	4.3	2	75254	2	1	14	N NH
NOV 23+87	NOV 22+87	825 830	820 1030	2	0.1	2	75255	2	1	14	N N
NOV 24+87	NOV 23+87	835 840	1930 200	1	10.0	1	75256	2	1	100	E N
NOV 25+87	NOV 24+87	845 825	845 1400	1	0.2	1	75257	2	1	107	E N
NOV 26+87	NOV 25+87	890 810	1815 810	3	29.0	2	75258	2	1	107	E N
NOV 27+87	NOV 26+87	815 825	815 1700	3	5.6	2	75259	2	1	83	
NOV 30+87	NOV 29+87	830 830	1815 830	1	18.0	1	75260	2	1	100	
DEC 1+87	NOV 30+87	835 840	835 1150	2	2.4	2	75261	2	1	78	
DEC 2+87	DEC 1+87	840 855	2130 855	3	1.6	2	75263	2	1	17	X
DEC 3+87	DEC 2+87	900 825	1000 1600	2	0.3	2	75264	2	1	100	E N
DEC 4+87	DEC 3+87	830 825	845 915	2	0.1	2	75265	2	1	100	E N
DEC 5+87	DEC 4+87	835 845	910 1700	2	1.8	2	75266	2	1	78	X
DEC 6+87	DEC 5+87	850 820	1815 2300	2	2.2	2	75267	2	1	26	XN
DEC 7+87	DEC 6+87	825 835	1100 1330	2	0.1	2	75268	2	1	100	E N
DEC 8+87	DEC 7+87	840 835	840 1130	2	0.1	2	75269	2	1	100	E N
DEC 9+87	DEC 8+87	845 840	1600 2300	1	6.3	1	75270	2	1	129	E N
DEC 10+87	DEC 9+87	845 830	1455 1745	1	0.4	1	75271	2	1	100	E N
DEC 11+87	DEC 10+87	840 835	1020 1145	1	0.1	1	75272	2	1	78	
DEC 13+87	DEC 12+87	825 850	1750 300	1	1.2	1	75273	2	1	78	E N
DEC 14+87	DEC 13+87	855 830	910 2100	2	0.8	2	75274	2	1	37	N
DEC 16+87	DEC 15+87	820 815	1450 820	2	7.7	2	75275	2	1	72	
DEC 17+87	DEC 16+87	825 825	825 1500	2	7.7	2	75276	2	1	66	
DEC 18+87	DEC 17+87	830 805	1110 1245	2	0.1	2	75277	2	1	100	E N
DEC 19+87	DEC 18+87	810 840	500 840	2	1.1	2	75278	2	1	49	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 14

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMH/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 29,87	OCT 28,87	251.0	11.0	*****	4.66	*****	0.0425	1.40	0.18
OCT 30,87	OCT 29,87	*****	*****	*****	*****	*****	*****	*****	*****
OCT 31,87	OCT 30,87	167.0	IRE	*****	IRE	*****	*****	*****	*****
NOV 4,87	NOV 3,87	107.0	64.0	*****	UG	7.32	0.0293	9.50	1.16
NOV 5,87	NOV 4,87	287.0	27.0	*****	UG	4.34	0.0768	3.35	0.72
NOV 6,87	NOV 5,87	357.0	3.0	*****	UG	6.60	0.0183	0.85	0.14
NOV 7,87	NOV 6,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 8,87	NOV 7,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 9,87	NOV 8,87	822.0	4.5	*****	4.08	*****	0.1290	2.85	1.03
NOV 11,87	NOV 10,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 13,87	NOV 12,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 14,87	NOV 13,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 15,87	NOV 14,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 18,87	NOV 17,87	870.0	9.0	*****	4.84	*****	0.0343	0.80	0.17
NOV 19,87	NOV 18,87	89.0	26.0	*****	4.43	*****	0.0659	2.50	0.62
NOV 21,87	NOV 20,87	134.0	19.0	*****	4.86	*****	0.0403	1.60	0.99
NOV 22,87	NOV 21,87	40.0	8.5	*****	7.35	*****	0.0158	0.55	0.14
NOV 23,87	NOV 22,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 24,87	NOV 23,87	41.0	94.0	*****	3.77	*****	0.2260	9.35	1.34
NOV 25,87	NOV 24,87	*****	*****	*****	*****	*****	*****	*****	*****
NOV 26,87	NOV 25,87	1997.0	27.0	*****	4.19	*****	0.0887	1.65	0.68
NOV 27,87	NOV 26,87	300.0	18.0	*****	4.32	*****	0.0641	1.40	0.30
NOV 30,87	NOV 29,87	1165.0	5.0	*****	5.03	*****	0.0216	0.30	0.06
DEC 1,87	NOV 30,87	120.0	12.0	*****	4.48	*****	0.0460	0.93	0.22
DEC 2,87	DEC 1,87	18.0	*****	*****	*****	*****	*****	*****	*****
DEC 3,87	DEC 2,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 4,87	DEC 3,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 5,87	DEC 4,87	91.0	*****	*****	*****	*****	*****	*****	*****
DEC 6,87	DEC 5,87	37.0	*****	*****	*****	*****	*****	*****	*****
DEC 7,87	DEC 6,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 8,87	DEC 7,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 9,87	DEC 8,87	*****	*****	*****	4.27	*****	0.0795	2.15	0.41
DEC 10,87	DEC 9,87	412.0	26.5	*****	4.28	*****	0.0776	*****	*****
DEC 11,87	DEC 10,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 12,87	DEC 11,87	60.0	45.0	*****	4.00	*****	0.1250	1.60	1.33
DEC 14,87	DEC 13,87	19.0	*****	*****	4.51	*****	0.0605	*****	*****
DEC 16,87	DEC 15,87	396.0	15.0	*****	4.50	*****	0.0534	0.75	0.37
DEC 17,87	DEC 16,87	328.0	21.0	*****	4.32	*****	0.0657	0.55	0.65
DEC 18,87	DEC 17,87	*****	*****	*****	*****	*****	*****	*****	*****
DEC 19,87	DEC 18,87	35.0	22.0	*****	4.44	*****	0.0625	1.30	0.71

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

PAGE : 15

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 29,87	OCT 28,87	<T	<W	<T	<W	<T	0.150	0.0219
OCT 30,87	OCT 29,87	*****	*****	*****	*****	*****	*****	*****
OCT 31,87	OCT 30,87	!RE	!RE	!RE	!RE	!RE	!RE	!RE
NOV 1,87	NOV 3,87	0.32	0.85	0.090	1.030	0.345	7.000	0.0000
NOV 4,87	NOV 3,87	0.44	0.16	0.045	0.050	0.040	0.740	0.0457
NOV 5,87	NOV 4,87	0.34	0.10	0.030	<T	<T	0.185	0.0003
NOV 6,87	NOV 5,87	*****	*****	*****	*****	*****	*****	*****
NOV 7,87	NOV 6,87	*****	*****	*****	*****	*****	*****	*****
NOV 8,87	NOV 7,87	*****	*****	*****	*****	*****	*****	*****
NOV 9,87	NOV 8,87	0.22	0.14	0.010	0.075	<T	0.685	0.0832
NOV 11,87	NOV 10,87	*****	*****	*****	*****	*****	*****	*****
NOV 12,87	NOV 11,87	*****	*****	*****	*****	*****	*****	*****
NOV 13,87	NOV 12,87	*****	*****	*****	*****	*****	*****	*****
NOV 14,87	NOV 13,87	*****	*****	*****	*****	*****	*****	*****
NOV 15,87	NOV 14,87	*****	*****	*****	*****	*****	*****	*****
NOV 16,87	NOV 15,87	*****	*****	*****	*****	*****	*****	*****
NOV 17,87	NOV 16,87	0.12	0.27	0.025	0.010	0.135	0.035	0.0145
NOV 18,87	NOV 17,87	0.36	0.10	0.025	<T	0.020	0.540	0.0372
NOV 19,87	NOV 18,87	1.12	0.22	0.075	0.020	0.050	0.310	0.0145
NOV 20,87	NOV 19,87	1.46	0.17	0.135	0.050	0.055	0.240	0.0000
NOV 21,87	NOV 20,87	*****	*****	*****	*****	*****	*****	*****
NOV 22,87	NOV 21,87	*****	*****	*****	*****	*****	*****	*****
NOV 23,87	NOV 22,87	0.66	0.87	0.095	0.070	0.455	0.725	0.1698
NOV 24,87	NOV 23,87	*****	*****	*****	*****	*****	*****	*****
NOV 25,87	NOV 24,87	*****	*****	*****	*****	*****	*****	*****
NOV 26,87	NOV 25,87	<T	0.10	<T	0.010	0.085	0.180	0.0646
NOV 27,87	NOV 26,87	0.06	0.02	0.005	<W	0.010	0.035	0.0479
NOV 28,87	NOV 27,87	0.02	0.19	0.005	<W	0.080	0.005	0.0093
NOV 29,87	NOV 28,87	<W	<T	<W	<W	<T	0.025	0.0331
NOV 30,87	NOV 29,87	<W	<T	<W	<W	<T	*****	*****
DEC 1,87	NOV 30,87	*****	0.03	0.005	0.005	0.010	*****	*****
DEC 2,87	DEC 1,87	*****	*****	*****	*****	*****	*****	*****
DEC 3,87	DEC 2,87	*****	*****	*****	*****	*****	*****	*****
DEC 4,87	DEC 3,87	*****	*****	*****	*****	*****	*****	*****
DEC 5,87	DEC 4,87	*****	*****	*****	*****	*****	*****	*****
DEC 6,87	DEC 5,87	*****	*****	*****	*****	*****	*****	*****
DEC 7,87	DEC 6,87	*****	*****	*****	*****	*****	*****	*****
DEC 8,87	DEC 7,87	*****	*****	*****	*****	*****	*****	*****
DEC 9,87	DEC 8,87	!IS	!IS	!IS	!IS	!IS	0.140	0.0537
DEC 10,87	DEC 9,87	<T	0.08	0.030	<T	0.415	0.010	0.0525
DEC 11,87	DEC 10,87	*****	*****	*****	*****	*****	*****	*****
DEC 12,87	DEC 11,87	!IS	0.05	!IS	!IS	!IS	0.220	0.1000
DEC 13,87	DEC 12,87	*****	*****	*****	*****	*****	0.560	0.0309
DEC 14,87	DEC 13,87	0.11	*****	<T	0.025	0.085	0.030	0.0316
DEC 15,87	DEC 14,87	0.02	<T	0.015	<W	<T	0.030	0.0479
DEC 16,87	DEC 15,87	0.02	<T	0.005	<W	<T	0.030	*****
DEC 17,87	DEC 16,87	<W	0.02	<W	0.005	0.015	*****	*****
DEC 18,87	DEC 17,87	*****	*****	*****	*****	*****	*****	*****
DEC 19,87	DEC 18,87	!IS	0.30	!IS	!IS	!IS	*****	0.0363

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

PAGE : 16

STATION NAME : SUTTON/DAILY/AEROCHEM./7011

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	PRECIP START/END HR.	SAMPLE TYPE	GAUGE DEPTH(MM)	GAUGE TYPE	SAMPLE NUMBER	PROJECT CODE	SUBPROJECT CODE	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
				01-RAIN		01-STD.		02-APIOS	01-MOE		
				02-SNOW		02-NIPHER		03-SPECIAL	03-AES		
				03-COMP/04-OTHER							
DEC 20,87	DEC 19,87	845 840	600 840	2	2.1	2	75279	2	1	49	N
DEC 21,87	DEC 20,87	840 840	840 1700	3	6.8	2	75280	2	1	58	N
DEC 24,87	DEC 23,87	835 820	1055 1630	3	2.0	2	75281	2	1	49	N
DEC 25,87	DEC 24,87	825 850	300 850	1	5.4	2	75282	2	1	100	
DEC 26,87	DEC 25,87	855 840	855 1615	1	0.8	2	75283	2	1	115	
DEC 27,87	DEC 26,87	850 850	2230 600	2	0.1	2	75284	2	1	****	E
DEC 28,87	DEC 27,87	855 845	910 1830	2	2.3	2	75285	2	1	14	N
DEC 29,87	DEC 28,87	850 850	400 850	2	0.8	2	75286	2	1	11	Q
DEC 30,87	DEC 29,87	855 830	855 1530	2	0.2	2	75288	2	1	****	E

